

SYNOPSIS OF THE RESULTS OF THE OPERATIONS OF

THE GREAT TRIGONOMETRICAL SURVEY OF INDIA

VOLUME XXXI

DESCRIPTIONS AND CO-ORDINATES

OF THE

PRINCIPAL AND SECONDARY STATIONS AND OTHER FIXED POINTS OF

THE KHAPISHA MERIDIONAL SERIES

OR SERIES G

ор ти

SOUTH-WEST QUADRILATERAL.

PREPARED IN THE OFFICE OF THE TRIGONOMETRICAL BRANCH, SURVEY OF INDIA, COLONEL G. STRAHAN, R.E., DEPUTY SURVEYOR GENERAL, IN CHARGE.

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1893.

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CHART

ERRATA ET ADDENDA.

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 $42-_{G}$. The height 2243 74 feet of Anakvádi, XXV, refers to the mark-stone in the upper surface of the platform.

17—G. The height 1164 81 feet of Dhanyar, XXIV, refers to the mark-stone in the upper surface of the platform.

February, 1893.

J. ECCLES,

In charge of Computing Office.

REFERENCES.

The abbreviations employed in the text are as follows:-

h.s. denotes hill station (secondary),

e. " station

These abbreviations are only placed after stations where a theodelite has been set up and observations taken to surrounding points.

The latitudes and longitudes of all points shown on the Chart at the end of the volume will be found in the text. The latter exhibits numerical values of triangles only to points of a superior class, to which alone, if exhibited on the Chart, lines are drawn: the lines are either continuous throughout, or dotted for half the length and continuous for the other half: the dots indicate that the bearing was not observed. For other points difficult to identify or of comparatively less accuracy, numerical values of triangles and azimuths are not given.

February, 1893.

J. ECCLES,

In charge of Computing Office.

PREFACE.

The Khánpisura Meridional Series, the details of which are given in this volume, forms one of the internal chains of the South-West Quadrilateral, or that section of the triangulation of India which lies between parallels of 15° and 25° and between the meridian of 78° and the Arabian Sea. The general principles of the simultaneous reduction, and the procedure followed in carrying it out, are explained in Volume II of the Account of the Operations, &c.; and full details of the whole of the principal triangulation appertaining to the Quadrilateral will be found in Volume XIV of the Account of the Operations, &c.

As however the entire contents of the volumes of the principal triangulation are not needed by geographers and surveyors, and moreover as these volumes give no details of the secondary triangulation—which is of considerable value for local requirements—it is obviously desirable that synopees of the final results of the whole of the operations, including the secondary as well as the principal triangulation, should be published for general use in such a form as to be most suitable for convenience of reference. This has already been done as follows:— For the several Series forming the North-West Quadrilateral,

I. Great Indus Series.

II. Great Arc, Section 21° to 30°.

III. Karachi Longitudinal Series.

IV. Gurhágarh Meridional Series.

V. Rahun Meridional Series.

VI. Jogi-Tila and Sutlej Series.

VII. North-West Himalaya Series.

VII A. Jodhpore and Eastern Sind Meridional Series.

For those forming the South-East Quadrilateral,

VIII. Great Arc, Section 15° to 21°.

IX. Jabalpur Meridional Series.

X. Bider Longitudinal Series.

XI. Biláspur Meridional Series.

XII. Calcutta Longitudinal Series.

XIII. East Coast Series.

XIII A. South Parasnath and South Maluncha Series.

Already published.

Already published.

For those forming the North-East Quadrilateral,

XIV. Budhon Meridional Series.

XV. Rangir Meridional Series.

XVI. Amua and Karára Meridional Series.

XVII. Gurwáni and Gora Meridional Series.

XVIII. Hurílaong and Chendwar Meridional Series.

XIX. North Párasnáth and North Malúncha Meridional Series.

XX. Calcutta and Brahmaputra Meridional Series.

XXI. East Calcutta Longitudinal and Eastern Frontier Series, Section 23° to 26°.

XXII. *Assam Valley Triangulation, E. of Meridian 92°.

For the following Series of the Southern Trigon, viz.,

XXIII. South Konkan Coast Series.

XXIV. Mangalore Meridional Series.

XXV. South-East Coast Series.

XXVI. Bombay Longitudinal Series.

XXVII. Madras Longitudinal Series.

XXVIII. Madras Meridional and Coast Series.

XXIX. Great Arc, Section 8° to 18°. (In press).

And for the following Series of the South-West Quadrilateral:-

XXX. Abu Meridional and Gujarát Longitudinal Series. Already published.

The present is the 32ud Synoptical Volume in order of publication, and the second of those appertaining to the South-West Quadrilateral; it gives the results both of the principal triangulation executed exclusively with theodolites having azimuthal circles of 15 and 21 inches in diameter, read by three and five micrometer microscopes respectively, and of the secondary triangulation in which other instruments besides the 15-inch theodolite were used.

By the process of reduction which has been followed, the principal triangulation has been rendered perfectly consistent both internally and externally; internally, so that if in any one of the several polygonal figures of which the chains may be composed, calculations are carried from one station to another in every possible direction, the same results will be inevitably deduced; and externally, so that the values of the co-ordinates of any station, when computed from the given co-ordinates of any other station, with the final linear and angular data, will be the same, whether the calculation is carried directly through the Series, or circuitously through any of the other chains of triangles comprising the South-West Quadrilateral. All secondary triangulation emanating from one side of the principal Series and closing on another side thereof, or on a contiguous Series, have also been made consistent throughout.

As regards the general arrangement of this volume, it may be pointed out that the Introduction to the Series was originally prepared for Volume XIV of the Account of the Operations, &c., and when a sufficient number of copies had been printed for that work, additional copies were struck off for this volume. The Introduction gives a historical and descriptive sketch of the progress of the whole operations in the field—both principal and secondary—from year to year, mentions the Officers by whom they were conducted, the theodolites with which principal angles were measured, and indicates the work done by each of the Assistants. The adjustment of the secondary triangulation was taken in hand in the year 1892, and completed in the same year when the printing of the volume was resumed.

The data given in this volume are the following:-

First (page 1_{-G}), an alphabetical list of the names of the principal stations, showing the numbers assigned to them.

Second (page 2_g.), a numerical list giving the names corresponding to the numbers.

Third (page 3_g.), descriptions of the structure and positions of the principal stations.

Fourth (page 12-c), the angles and sides of the principal triangles.

^{*} This is an offshoot of the Assam Longitudinal Series, and falls entirely outside of the limits of the North-East Quadrilateral. The volume is issued in a preliminary form, and therefore only a limited number of copies are available to meet any immediate demand for data: the final publication will be hereafter made on the completion of the triangulation in Burma, into the general reduction of which this Series will enter.

PREFACE. ix

Fight (page 16_{-6}), the angles and sides of certain secondary triangles. The numbering is here made consecutive to that of the principal triangles, in order to facilitate references which are made in other sections to the place where the length of a side is to be found.

Seventh (page 41-g.), the co-ordinates and descriptions of all stations and points arranged in alphabetical order.

It has not been considered necessary to publish the whole of the details of the secondary triangulation; the sides and angles of 304 triangles, which were selected as most likely to be of future use, and the azimuths of all these sides, have been given; but for a number of other points the co-ordinates only have been given. With the aid of Tables Nos. XXVI, XXVII, XXVIII, XXIX and XXX of the Auxiliary Tables to facilitate the calculations of the Survey of India, Dehra Dún, 1887, surveyors, working on a system of rectangular co-ordinates, can readily transform the spheroidal co-ordinates here given to suit their requirements.

The heights above mean sea level of the stations depend on the final trigonometrically determined values of Būda and Būlāgara stations of the Karāchi Longitudinal Series of the North-West Quadrilateral and on the spirit-levelled value of Agargaon station of the Bombay Longitudinal Series of the Southern Trigon, and are further controlled by lines of spirit-levelling crossing the Series. All particulars regarding the heights will be found detailed on page 41—6, as well as in the footnotes to the subsequent pages.

The longitudes depend on an astronomically determined value of the longitude of the Madras Observatory, deduced about the year 1815. The longitude of the Madras Observatory has however been re-determined by the Electro-Telegraphic method, from observations made at Greenwich, Mokattam (in Egypt), Suez, Aden, Bombay and at certain stations of the triangulation in India.

This value of the longitude of the Madras Observatory is equivalent to 80° 14′ 51″ E.; and as the originally adopted value, on which the longitudes of the whole of the stations of this Survey are based, is 80° 17′ 21″ E.—see page 135 of Volume II of the Account of the Operations, &c.—the following precept may be accepted with considerable confidence:—

All the values of longitude in this volume require a constant correction, probably of -2'30'.

The orthography of Indian names in the present volume is in accordance with the provincial lists of spellings constructed under the immediate orders of the Government of India. The newly authorised spellings were adopted for all names and other words contained in these lists; but for words for which there was no specific authority, the spellings have been framed in accordance with the methods followed in the preparation of the published lists, reference being made in the present instance more particularly to the Gazetted Lists for the Bombay Presidency, Nizam's Territory and Central India Agency. As a general rule the pronunciations of the vowels are as follows:—a has a variable sound as in woman, rural, paltry; á as in tartan; i as in bit; i as in ravine; u as in bull; ú as in rural; o as in note; c as a in say; au as ou in cloud; ai as i in ride. Final vowels and those in well-known terminals are unaccented. When the popular spelling of a name has been accepted by Government, its correct orthography is generally given in parenthesis where the name occurs for the first time.

The chart accompanying this volume shows all the principal stations and triangulation, the positions of all secondary points, and those portions of the secondary triangulations of which full details of the angles, sides and azimuths are given. With the aid of the chart it is hoped that little difficulty will be met with in finding out any of the data which may be required. The descriptions of the secondary stations and points are in some cases not as full and clear as might be desired: this arises from the inadequacy of the information entered on the spot by the surveyors in their field books; every effort has been made to supplement the field books, whenever it was found practicable to do so, in order to facilitate the future identification of the stations, and all the information which is forthcoming has now been given.

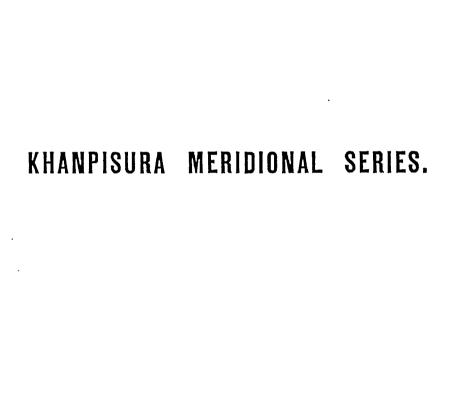
The general arrangement of the volume is in accordance with that adopted in previous Synoptical Volumes. The data which it contains have been prepared chiefly under the superintendence of Mr. J. Eccles, M.A., Deputy Superintendent, the Officer in charge of the Computing Office. The Introduction to the Series was written by Captain S. G. Burrard, Deputy Superintendent. The volume like its predecessors has been printed at the Trigonometrical Branch Office at Dehra; Mr. Peychers has rendered valuable service in the examination of the press proofs generally, and more particularly in regard to the preparation and final revision of the letter press and numerical details which require the utmost care, and in this respect from his natural aptitude and experience his assistance has been most valuable.

Dehra Dun,
February, 1899.

G. STRAHAN, COLONEL, R.E.,

Dy. Surveyor General,

In charge Trigonometrical Surveys.



INTRODUCTION.

The Khánpisura Meridional Series of the South-West Quadrilateral is the great chain of principal triangles that follows the meridian of $75\frac{1}{2}^{\circ}$ from the parallel of 19° to that of $24\frac{1}{4}^{\circ}$. Its southern extremity is in the dominions of the Nizam, and it passes through Khándesh and Central India. It consists of one compound figure, two double and two single polygons, and four quadrilaterals, and extends over a meridional distance of 360 miles. Its name is derived from the station of Khánpisura of the Bombay Longitudinal Series.

The series lies between the side Búda (xxi)—Bálágara (xxiv) of the Karáchi Longitudinal Series and the side Chincholi (xxiii)—Ágargaon (xxiv) of the Bombay Longitudinal Series. In the simultaneous reduction of the South-West Quadrilateral, it had therefore to be fitted in between a finally fixed side of the North-West Quadrilateral and another of the Southern Trigon: on the completion of this reduction it was found that the errors which had actually been dispersed between the two fixed terminals were as follows:—

In Latitude of Ágargaon	(xxiv)	•••	•••	•••	_	o"635
" Longitude of "	"	•••	•••	•••		o·566
" Azimuth of Ágargaon	(xxiv)—Ch	incholi	(xxiii)	•••	_	7.808
In side $\begin{cases} \text{Logarithm of feet} & . \\ \text{giving a ratio of a} \end{cases}$	 bout 2·78 i	 nches p	 er mile.	•••	+	0.000,0190,3

Observations for the direct determination of azimuth have been taken at two stations of the Khánpisura Meridional Series, viz., Valvádi and Indrawán.

In 1845 when the North Konkan or Singi Series had been carried as far north as the parallel of 21° 45′, it was found necessary to temporarily abandon it, as the health of the party had suffered so terribly in its execution. Lieutenant Harry Rivers of the Bombay Engineers, the Officer in charge, was accordingly directed in October, 1845, to start a new

series of triangulation from a side of the Bombay Longitudinal Series and carry it due north along the meridian of 75°.

The sides of the old Bombay Longitudinal Series that Rivers adopted as bases for

Season 1845-46.

PERSONNEL.

Lieutenant H. Rivers, Bombay Engineers, 2nd Assistant G. T. Survey. Air. J. Fraser, Sub-Assistant 1st Class.

" T. Sanger, " 2nd Class.

the new chain were Párner-Khánpisura and Khánpisura-Sautára*, and the first stations he selected were those of Ágargaon and Chincholi. By the end of December 1845 he had completed the triangulation up to the side Dhaigaon-Mathuri, and by the middle of January he had by means of two new single triangles reached Yerúl-

Jámkhed. On this latter side he constructed a pentagon round Pophla as a centre which advanced the triangulation as far north as Sátmála-Sirsála. He then proceeded to Surat to take some observations at stations of the Singi Meridional Series, which he had had to relinquish the previous year, and he was occupied with these till the close of the field season.

In the Introduction to the Singi Meridional Series an account is given of the great difficulties that Lieutenant Rivers encountered in the execution of that Series, and of his repeated failures to extend it through the Dáng jungles; he had in fact been unable to carry it north of the parallel 21° 45′, and at this point it was now standing in abeyance.

In the summer of 1846 Rivers proposed to Sir Andrew Waugh to connect the Singi and Khánpisura Series in latitude 20° 30′ by means of three single triangles, one on the side of the Khánpisura Series, Sirsála-Sátmála, one on the side of the Singi Series, Ankai-Sáler, and one between, and to convert the two present Meridional Series from this point northwards into one on the meridian of 74° 45′: this new series he explained would run through Khándesh and Malwa (Málwa), where there were a succession of hills, which they had not the benefit of in the plains of Gujarát, and which moreover did not extend sufficiently to the east to allow of being utilised for the Khánpisura Series: the atmosphere too would be more favorable for trigonometrical work, being higher and further from the haze of the coast. Sir Andrew Waugh, who still believed in the feasibility of extending the Singi Series, refused to sanction Rivers' proposal on the grounds that it was not in keeping with the system of the Indian triangulation, and directed that both Meridional Series should be kept distinct and unconnected. The party passed the recess season of 1846 at Poona.

On October 9th, 1846, Rivers began observing an astronomical azimuth at Khánpiseason 1846-47. sura, which was not completed till October 21st, Owing to

PERSONNEL.

Licutenant II. Rivers, Bombay Engineers, 2nd Assistant G. T. Survey, Mr. J. Fraser, Sub-Assistant 1st Class.

" T. Banger, " J. DaCosta, " 2nd Class. sura, which was not completed till October 21st, owing to cloudy and boisterous weather. He then re-observed the angle at Párner between Khánpisura and Ágargaon and also that at Khánpisura between Párner and Ágargaon, as they had been taken before on but three pairs of zeros†. The next stations he visited were Sirsála and Sátmála,

^{*} The three northern triangles of the Khanpisura Heptagon appertained originally to the Khanpisura Meridional Sories; the whole Heptagon is now included in the Bombay Longitudinal Series, and consequently belongs to the Southern Trigon.

† These measures were not utilized in the calculation.

which are situated on the northern edge of the Ajanta range of gháts and from which a clear view to the north can be obtained all the way to the Sátpuda range. From these stations, at each of which two angles remained to be observed, a further extension of the Khánpisura Series was commenced. After leaving Valvádi, where he had observed an astronomical azimuth, the country became very desolate; there were no villages and no roads, and dense jungle lay in every direction.

At Thikri a letter arrived from Mr. Sanger, who was in charge of the approximate work, reporting that he had great difficulty in selecting a strong and suitable figure immediately to the north of the parallel of 22°, owing to the country in the Malwa Districts being a perfect plain. Leaving the theodolite and the greater part of his camp at Thikri, Rivers pushed on in advance to help his assistant; after three weeks hard work he succeeded in laying down an excellent figure, the Mograba Hexagon, and returned to Thikri to resume the observations of the principal angles. By the middle of April, 1847, he had carried the Khánpisura Series as far north as the side Harnása-Indrawán, and at the latter station had observed an astronomical azimuth. He arrived at Mhow (Mau) shortly before May 1st, where he established his recess quarters.

As Rivers' series was now approaching the parallel of Kaliánpur and Sironj the

Season 1847-49.

PERSONNEL.

Licutenant H. Rivers, Bombay Engineers, 2nd Assistant G. T. Survey. Mr. J. Fraser, Sub-Assistant 1st Class.

" T. Sanger, " 2nd Class.

selection of his stations became a matter of more than ordinary difficulty: preparations were already being made for extending the Great Longitudinal Series along this parallel westwards to Karáchi, but the exact latitude in which it would strike the Khánpisura Meridian could not be foreseen. Rivers was told to so select his figures, bethat any one of them if necessary should admit of being

tween the parallels of 24° and 25°, that any one of them if necessary should admit of being adopted in the new Longitudinal Series. On taking the field in October, 1847, Rivers himself commenced the approximate work, which he found a most difficult task: all his triangles had to admit of satisfactory extensions not only to the north, but also to the east and west, and as there were no commanding hills it was often necessary to make a minor triangulation simply to obtain the direction of the points already determined. Under these circumstances Rivers thought it his best plan to undertake himself the approximate work of the new Longitudinal Series and carry it on simultaneously with that of his own chain. He therefore decided to select the stations on the Khánpisura Meridian as far north as the parallel of 24° and to then work along that parallel to Sironj. He had just completed the selection of the stations for the Aramlia Polygon, and was about to proceed to Sironj, when he received orders to carry the Khanpisura Series due north to Ajmere (Ajmer) and to leave the longitudinal connection with Sironj to be taken up by another officer. He carried the approximate work up to the parallel of 25° and then commenced the final observations working southwards from the northernmost stations. The Great Longitudinal Series eventually struck the Series under review in the latitude of Aramlia, but Rivers' polygon around that station proved unsuitable and another had to be selected. The former, however, together with Rivers' work to the north of it, was included in the Aramlia (now the Gurhágarh) Meridional Series, whilst the

side connecting the stations of Bálágara and Búda, which was common to both was made the northern boundary of the Khanpisura Meridional Series. By the end of March, 1848, Rivers had carried the principal work southwards as far as the stations of Dhamnar and Sitamau, and in April he completed the observations at Lohari and Dudhala: at Nigrun, however, though he halted a week, he could not see the Deo Dongri signal, which had been easily visible in November. At Deo Dongri too he was unable to observe Nigrun. At Gurla he met with no better success, though, owing to the shortness of the rays, all the surrounding heliotropes were visible, and at Karsod the Indrawan station could not be made out though large fires were lighted at night, and though the signal had been seen by Mr. Sanger in October. Finding it thus impossible to complete the connection with the side Harnása-Indrawán of his former season's work, he closed the field season at Karsod on May 5th. He had dismantled and packed the instrument, and it was ready to be moved, when during the night one of the boxes was broken open and the telescope and vertical circle were carried off by thieves. They were found next morning in a ditch 300 yards from camp; they were both uninjured but the eye-piece was missing. Rivers arrived at Mhow where he had established his recess quarters on May 15th.

Rivers re-commenced operations the following winter: the first station visited was

Season 1848-49.

PERSONNEL.

Lieutenant H. Rivers, Bombay Engineers, 2nd Assistant G. T. Survey. Mr. J. Fraser, Sub-Assistant 1st Class.

T. Sanger, 2nd Class. J. DaCosta

Indrawán which he reached on November 17th, and from thence he went to Karsod. By the end of the year 1848 he had completed the connection between the northern and southern sections, and the Principal Triangulation of the Khánpisura Meridional Series was finished. then proceeded towards Neemuch (Nimach) and took up

The instrument employed by Lieutenant Rivers on the the work of the Gurhagarh Series. Khánpisura Series was the same 15-inch Theodolite by Dollond that was used on the southern section of the Singi Series.

Season 1862-63.

PERSONNEL.

Captain C. T. Haig, n.E., 1st Assistant. Mr. DaCosta, Assistant. J. McGill, Civil 2nd Assistant. G. Anding, Sub-Assistant. J. E. Donohoe, 3rd Class Sub-Assistant.

The Khanpisura Series as left by Rivers, though otherwise double throughout, was weakened near its southern extremity by the existence of two single triangles, viz., Mathuri, Dhaigaon, Jámkhed and Yerúl, Dhaigaon, Jámkhed. In November 1862, Captain Haig, R.E., who was in charge of the Bombay Party and who was about to undertake the Triangulation of the Mangalore Meridional Series, set out from Poona (Puna)

with the object of strengthening the single portion of the Khanpisura Series, he obtained by the adoption of but one new station that of Ahirmal, which with Mathuri Jamkhed and Rajur gave two new triangles and thus completed a double polygon round Jumkhed and Pophla. Mathuri, the first station visited was reached on November 10th, 1862 and all the observations necessary at the four stations were completed on December 7th. The instrument he used was that known in the Survey Department as Barrow's 24-inch Theodolite No. 2.

In consequence of the great deficiency of observations on certain rays and of the weak character of the heights in general, the re-measurement of all the vertical angles of Rivers' section of the Khánpisura Series was found necessary. In 1882-83, Mr. A. Christie, Surveyor 4th grade, began this revision from the side Bálágara-Búda of the Karáchi Longitudinal Series, and worked southwards as far as Jalálabad and Bábákuvar. In November 1883, Mr. H. E. T. Keelan, Surveyor 3rd grade, was directed to commence at the southern extremity of the Series, Ágargaon and Chincholi, and to work northwards so as to close on Mr. Christie's work of the previous year. Unfortunately at Ágargaon Mr. Keelan was attacked with severe inflammation of the right eye, which obliged him to return to Ahmednagar (Ahmadnagar) for medical aid; he was compelled to take privilege leave till January 15th, and consequently lost two months in the best part of the season. This interruption made it impossible to complete the revision of the heights in the field season of 1883-84, and Mr. Keelan had to resume work on it the following year, when the remeasurement of all the vertical angles was finished.

In 1868-69, Lieutenant W. J. Heaviside, R.E., visited the stations of Deo Dongri and Harnása, and in the following year those of Valvádi and Dhaigaon, and at each of the four observed an astronomical latitude.

Secondary Triangulation.

On the southern part of the Khánpisura Meridional Series, as far north as the River Tápti, an unusually large number of secondary points were fixed by Rivers: the majority of these were intersected pagodas, forts and trees, but there were several secondary stations too, that were visited and observed at: the positions of the towns of Ahmednagar, Dhulia (Dhula) and Aurungabad were determined. The principal station of Ankai of the Singi Series was observed both from Sátmála and Ycrúl.

Between the Tapti and Narbada there were no prominent pagodas to observe and no important towns to be fixed and consequently the secondary work was very scanty, consisting of only some ten intersected points in all.

Between the Narbada and the northern terminus of the Series the country was a desolate desert, and but few opportunities offered of executing secondary work: the town of Dhár was the only place of importance that the Series passed over. From the side Harnása-Singárchori a small secondary series was run to the eastwards, which fixed numerous points in the cities of Indore (Indor) and Mhow and which ended at the town of Dewás.

S. C. BURRARD.

April, 1889.

PRINCIPAL TRIANGULATION. ALPHABETICAL LIST OF STATIONS.

							,								
Agargaon	•	•	- (ស្រស់ទា	i. Lelay	Dergi	XXIV.	Indráwan	•	•	•	•	•	•	XIII.
Ahirmal						•	XXXII.	Jalálabad	•	•	•				XIX.
Ajnád		•		•			XXII.	Jalálkheri	•	•	•	•		•	x.
Anakvádi	•	•	•	•	•		XXV.	Jámkhed	•	•	•	•	•	•	XXXI.
Árgaon '		•	•		•		XXI.	Knrsod	•	•	•	•	•	•	IX.
Bábákuvar	•	•	•				XX.	Kaula-ka-M	úta	•	•		•	•	XI.
Bálligara	•	•	•	(al ibs l	Karl-11	L 17.	XXIV. te loui Scott).	Lohári	•	•	•	•	•	•	VI.
Báwangaż			•	•			XVIII.	Mathuri	•	•	•	•	•	•	XXXIII.
Búda	•		•	(aribs)	nais:	L · ;	XXI.	Mograba	•	•	•	•	•	•	XIV.
Chincholi	•	•	٠	(ories)	ll-miny	₽ -7	XXIII.	Nigrun	•	•	•	•	•	•.	III.
Deo Dongri	•	•	•	•	•		v.	Pophla	•	•	•	•	•	•	XXVIII.
Dhaigaon		•	٠	•	•	•	XXXIV.	Rájur		•	•	•	•	• ,	XXIX.
Dhamnár	•	•	•	•	•	٠	II.	Sátmála	•	•	•	•	•	•	XXVII.
Dhanora	•	•	•	•	٠	•	VII.	Singárehori	•		•	•	•	•	xv.
Dhanvár	•	•	•	•		•	XXIV.	Sirsila		•	•	•		•	XXVI.
Dudhála	•	•	•	•		•	IV.	Sítamau	•		•	•	•	•	I.
Gumánpur	•	•	•	•		•	XVI.	Tlifkri	٠	•	•	•	•	•	· XVII.
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PRINCIPAL TRIANGULATION. NUMERICAL LIST OF STATIONS.

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PRINCIPAL TRIANGULATION, DESCRIPTION OF STATIONS.

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XXIV.—(Of the Karáchi Longitudinal Scries). Bálágara (Bálagarra) Hill Station, lat. 24°.10′, long. 75° 0′—observed at in 1848 and 1850—is situated on the north-eastern of a group of small, isolated hills, about a mile N.E. of the village of Bálágara, and 3 miles W. of the high road from Neemuch to Indore. The hill, on which the station is, rises about 120 feet above the general level of the country, and is a mile in circumference at base. The station is in the lands of the village of Bálágara, pargana Mandsaur, Gwalior territory.

The station as originally built in 1848 consisted of a platform of loose stone masonry, having a mark-stone at the top and another 3·10 feet below engraved on the rock in sitä: When visited in 1850 in the course of the Karáchi Longitudinal Series operations, it does not appear that any alteration in the construction of the station was made. In 1868-69, the mark on the rock was found and the platform, 3 feet in height, consisted of loose stone masonry. In the visit of 1882, the station was found unaltered and in good preservation; the surrounding platform being of stones and earth 18 feet square. The directions and distances of the circumjacent villages are:—Bái E., miles 1½; Dungloda S. by E., miles 1½; Narona N. by E., miles 2; Khera N.E., mile 1; and Kankri N.W., miles 1¾.

I. Sitamau Hill Station, lat. 24° 2′, long. 75° 22′—observed at in 1848—is situated 1½ miles N.W. of the town of Sitamau, near the centre of a small, flat-topped hill rising some 50 feet above the level of the country, and somewhat conspicuous as being the only wooded hill in the neighbourhood; it is about 20 feet higher than the ridges and spurs with which it is connected. The station is in the lands of the village of Murkhera, Sitamau State, Western Malwa Agency.

The station consisted of a platform of loose stone masonry and contained three marks, the upper two being 5.35 and 8.89 feet respectively above one engraved on the rock at the ground level. It was visited by Lieutenant Heaviside in 1868-69, who stated that "The pillar had apparently not been disturbed." When again visited in 1882, the station was found to consist of an isolated pillar of stone and earth 12.84 feet high, without a mark on its summit, surrounded by a platform of loose stones 18 feet square. A mark-stone was inserted and both the pillar and platform raised by 2.58 feet, making the entire height of the pillar 15.42 feet. The directions and estimated distances of the circumjacent villages are:—Suriakheri N., mile 1; Murkhera W. by S., mile 3; Chikla E.N.E., miles 3½; and Sítamau (town) S.E., miles 1½.

II. Dhamnar Hill Station, lat. 23° 53′, long. 75° 12—observed at in 1848—is situated on the highest part of a low, flat-topped, isolated hill rising some 40 feet above the level of the surrounding country. The station is 616 feet N.E. of a high solitary tree, and 5 miles S.E. of the Railway Station of Dalauda: pargana Mandsaur, Gwalior territory.

The station consisted of a solid pillar of masonry which carried a mark at its surface level with the ground and another, fixed in the rock with mortar, 2 feet below. It was visited in season 1868-69 by Mr. J. Wood, who remarks "There is no platform built here, and the lower mark is $2\frac{1}{2}$ feet below the surface of the ground." When again visited in 1882, the station was found to consist of a platform of earth and stones 1 foot high with a mark-stone in its upper surface. The directions and estimated distances of the circumjacent villages are:—Jamúnia E., miles $1\frac{1}{2}$; Atunia E.N.E., miles $1\frac{1}{2}$; and Yusufkhera W., mile $\frac{1}{4}$.

III. Nigrun Station, lat. 23° 46′, long. 75° 27′—observed at in 1818—is situated on the rising ground about 1½ miles S.E. of the village from which it is named, and 3½ miles N. of the town and post office of Tal: The station is in the lands of the village of Nigrun, pargana Tal, Jaora State, Western Malwa Agency.

The station consists of a solid pillar of masonry, about 5 feet in height, having marks at top and bottom 5.15 feet apart. The platform is built of loose stone masonry and carried to a height of 5.27 feet above the top of the solid pillar, the whole structure being 10.27 feet high. When visited in 1882, the platform and a mark-stone in its upper surface were found in good preservation. The directions and distances of the circumjacent villages are:—Pipalia N.E., miles 4; Naráni E.N.E., miles 5; Bagunia E. by S., miles 3; and Kachalia S.E., miles 4.

IV. Dudhála Hill Station, lat. 23° 51′, long. 75° 49′—observed at in 1848—is situated about 30 feet from the southern extremity of a laterite hill rising 100 feet above the level of the country. The top of the hill is flat, running off into wide spurs to N.W. and N.E. of the station, the southern face being rather precipitous. The town of Baraud lies 4½ miles to S. by E. of the station. The station is in the lands of the village of Dudhála, pargana Jhálra Pátan, Jhallawar Stato.

The station consists of a platform of loose stone masonry containing two marks, one at the surface 5.23 feet above the other. It was visited by Lieutenant Heaviside in season 1868-69, who remarks "The pillar had apparently not been disturbed". When again visited in 1882, the station and its upper mark-stone were found in good preservation. The directions and distances of the circumjacent villages are:—Atipura N.E. by E., miles 14; Kasankot E.S.E., miles 14; Khandwás S., mile 1; and Ratanpur W.S.W., mile §.

V. Deo Dongri Hill Station, lat. 23° 27', long. 75° 35'—observed at in 1818—is at the junction of three walls on the southern side of the roof (11\frac{3}{4} feet above ground) of the large temple on a low hill at the northern extremity of the village of Deo Dongri. The village is near the centre of a small, isolated hill, about

800 feet in length at top, and rising about 70 feet above the general level of the surrounding country: pargana Unel, Gwalior territory.

The station consists of a solid pillar of masonry, about 2 feet high, containing a mark in the surface 2.92 feet above one imbedded in the masonry of the wall. The mark is 1.33 feet from the E. side and 1.25 feet from the S. side of the pillar. In March 1869 a protecting pillar of stone masonry, 2 feet square, was built over the mark-stone. When again visited in 1882, the station was found marked by a square pillar of stone masonry rising 2.7 feet above the stone roof of the temple. The azimuths and perambulated distances of the circumjacent villages are:—Mattra 326°, miles 1.2; Mo 356°, miles 1.6; Rattra 48°, mile 0.8; Medpur (the largest and most conspicuous temple) 250°, miles 7½ by estimation.

VI. Lohári Hill Station, lat. 23° 35′, long. 75° 8′—observed at in 1848—is situated on a low, flattopped hill rising about 70 feet above the plain, appertaining to the villages of Lohári, Nagdi and Wairala. It lies about a mile E. of the railway line, and of the high road from Jaora to Rutlam. The station is in the lands of the village of Lohári, Jaora State, Western Malwa Agency.

The station consisted of a platform of loose stones, about 6 feet in height, enclosing a central, solid pillar of masonry which had a mark in its surface and another 5.21 feet below. It was visited in 1869 by Lieutenant Heaviside, when no mark-stones were found and a heap of loose stones alone denoted the site of the station. When again visited in 1883, the station was found to consist of a platform of earth and stones $5\frac{1}{2}$ feet high with a mark-stone in its upper surface, but as this proved too low for observations to Deo Dongri Station, the platform was raised with an isolated pillar of earth and stones in the centre to a height of 13.4 feet above the ground level. The estimated directions and distances of the following villages are:—Lohári N., miles $1\frac{1}{2}$; Waraila S., mile 1; Sadakheri E.S.E., miles 2; and Nagdi E.N.E., miles $1\frac{1}{2}$.

VII. Dhanora Hill Station, lat. 23° 17′, long. 75° 18′—observed at in 1848—is situated on a table-land rising about 80 to 100 feet above the surrounding country, 1 mile N. of Laptia village, and 6 miles E. of the Railway Station of Naugauvan. It is in the lands of the village of Dhanora, Sailana State, Western Malwa Agency.

The station consisted of a platform of loose stone masonry, 12 feet in height, which had a mark-stone at top and another at the ground level. When visited in 1883, no mark-stones were found, on removing the central portion of the heap of stones an excavation, a few inches deep, like the foundation of a pillar, was met with at the ground level; in this a mark-stone was fixed and the platform rebuilt to a height of 9.3 feet, and over which an isolated pillar of earth and stones 1.4 feet high was built, carrying a mark-stone in its upper surface; but this height proving insufficient the pillar was raised by 7.3 feet during the same season. The estimated directions and distances of the following villages are:—Sandla S.W. by W., mile 1; Bamori N. by W., miles 2; and Kamer E., miles 2.

VIII. Gurla Hill Station, lat. 23° 18′, long. 75° 36′—observed at in 1848—is situated on a northern spur of a low, flat-topped range of hills, which stretches in a S.S.E. direction from the station for some 4 or 5 miles, and is about 60 feet above the level of the country to the west. The station is in the lands of the village of Gurla, pargana Unel, Gwalior territory.

The station consists of a platform of loose stone masonry containing two marks, the upper 7.23 feet above the lower. It was visited by Lieutenant Heaviside in season 1868-69, who stated that "The mark-stone was not uncovered, but the pillar was apparently undisturbed". When again visited in 1883, the station was found to consist of a platform of earth and stones 6.7 feet above the ground level having a mark-stone in its upper surface. The directions and estimated distances of the circumjacent villages are:—Unel N. by E., miles 3; Gurla W., mile 1; Nawada N.W., miles 3\frac{1}{4}; and Norela S.S.E., miles 4.

IX. Karsod Hill Station, lat. 23° 7', long. 75° 28'—observed at in 1848 and 1862—is situated on a small hill about 5½ miles N.E. of the town and railway station of Barnagar. It is towards the S. extremity of the hill, and 119 (ft.?) S. (in.?) S. of the southern wall of a temple. It is in the lands of the village of Chota Karsod, pargana Barnagar, Gwalior territory.

The station consists of a platform (most probably constructed in a manner similar to those at the adjacent stations) and contains two marks, the upper 4:27 feet above the lower. When visited in 1862, in the course of the Guzerat Longitudinal Series operations, the station was found to be about 5 feet in height. When again visited in 1883, the station was found in good order and to consist of a platform of earth and stones enclosing a perforated pillar of masonry 5 feet high with two mark-stones, one in its upper surface and the other below; an aperture on the S. side gives access to the lower mark-stone. The estimated directions and distances of the circumfacent villages are:—Rasulabad S., mile 3; Chota Karsod N.E. by N., miles 14; and Palwas N., miles 23.

X. Jalálkheri Hill Station, lat. 23° 11′, long. 75° 45′—observed at in 1848—is situated on a detached hill about a mile S. of a table-land. The station is on the northern of two eminences rising 20 feet above the hill top, and some 100 feet above the level of the country and lies 3\frac{3}{3} miles west of the railway station near the town of Ujjain: pargana and district Ujjain, Gwalior territory.

The station consists of a platform of loose stones about 10 feet square and 6 feet high, the central portion from 2 to 3 feet square is of solid majoury in which three mark-stones are inserted, the two upper being 2.75 and 6.08 feet respectively above

one imbedded in the foundation, the second mark-stone is about the ground level. In 1869 Lieutenant Heaviside found the upper mark-stone in position. When visited in 1883, the station was found to consist of a platform of earth and stones 16 feet square and 3.8 feet high with a mark-stone in its upper surface. The directions and estimated distances of the circumjacent villages are:—Jalakheri W.N.W., mile 1; Mendpura E.N.E., miles 1½; and Chandukheri S.W. by S., miles 1½.

XI. Kaula-ka-Máta Hill Station, lat. 23° 8′, long. 75° 13′—observed at in 1848—is on an isolated and symmetrically shaped hill rising about 500 feet above the plain. The station is at the N.E. corner of the flat roof of the porch and E. of the spire of the large temple of Kaula-ka-Máta from which the hill derives its name. The station is in the lands of the village of Barmaval, Sailána State, Western Malwa Agency.

The station is denoted by two marks, the upper 0.75 of a foot above the lower: It was visited in 1869, when "the mark was found in good preservation". When again visited in 1883, the station was found to consist of a square pillar of masonry 6 inches high with a mark-stone in its upper surface, the height of which above the top of the hill is 18½ feet. The directions and estimated distances of the circumjacent villages are:—Amleti N.E., mile 1; Barmaval W., niles 3; and Lochitara (on the high road to Mhow) E., miles 2.

Another principal station, about 20 yards S. of the temple, was established in 1862 in the course of the operations of the Guzerat Longitudinal Series, in which Series its full description will be found under the name of Station "I. Kaula-ka-Mata":

XII. Harnása Tower Station, lat. 22° 47′, long. 75° 36′—observed at in 1847 and 1848—is situated on the highest part of the country, the watershed of the Gambhír and Chambal rivers, and 4 miles S. by E. of the town of Depálpur on the road from Neemuch to Indore: pargana Depálpur, Holkar's territory.

The station as originally built in 1846 consisted of a solid pillar of masonry sunk to a depth of about 9 feet, having its upper surface flush with the ground level. It contained two marks, one at the surface about 9 feet above the other. Over the pillar aloose stone platform was constructed with a mark in its upper surface. The height of the platform above the top of the pillar appears to have been originally 7.35 feet; but this not proving sufficient it was increased to 10.31 feet in April 1847. The station was revisited in 1869 by Mr. J. Wood, Assistant Surveyor, who removed the pile of stones and found a mark-stone about 3 feet below the ground level. He built up the pillar to the ground level and placed a mark-stone there. At this level astronomical observations for latitude were taken in 1869-70. Immediately afterwards a perforated masonry pillar was built over the mark-stone at the ground level and carried up to a height of 10.31 feet, the height of the station as given in the original description. The pillar is surrounded by a platform, and an arched passage runs nearly north and south through the platform and pillar giving access to the mark-stone. When again visited in 1883, the upper 4 feet of the pillar was found pulled down, it was rebuilt to a height of 10.2 feet above the ground level mark. The directions and distances of the circumjacent villages are:—Jaloda N.E. by.N., miles 13; Harnása S. by E., mile 3; Suklundi S. by W., miles 14; Básoda W. by N., mile 3; and Girora N. by W., miles 2.

XIII. Indráwan Tower Station, lat. 22° 49′, long. 75° 13′—observed at in 1847, 1848 and 1862—is situated on rising ground, about 1 mile N.W. of the village from which the station obtains its name, and 8 miles N.N.E. of Desi. The station is in the lands of the village of Barawál, pargana Badnáwar, Dhár State, Bhopáwar Agency.

The station as originally built in April 1847 consisted of a solid pillar of masonry sunk to a depth of 6.3 feet, containing two marks, the upper in the surface of the pillar being at the ground level; over this a platform of loose stones, 7.46 feet in height, with a mark at the top was constructed. In November-1848 an addition of 2.17 feet was made to the height of the platform. It was again visited in February 1862 in the course of the operations of the Guzerat Longitudinal Series: in the records of that Series it is simply stated that it is built 4.75 feet high. In 1869 the loose stone platform was removed; and over the original mark at the ground level, a perforated and isolated pillar of masonry 7.46 feet in height and 3½ feet in diameter was built with a mark-stone in its upper surface, and surrounded by a platform of earth and stones of the same height as the pillar. An arched passage from E. to W. gives access to the ground level mark. It thus appears that the station as last constructed is 2.17 feet lower than that of November 1848. When again visited in 1883, the pillar and its upper mark-stone were found in good order. The directions and distances of the circumjacent villages are:—Borjhiri W., mile 1; Burwai E., miles 2½; and Guudikheri S.E., miles 1½.

XIV. Mograba Hill Station, lat. 22° 23', long. 75° 22'—observed at in 1817—is situated on the summit of the highest, flat-topped hill 5½ miles to N.W. of the old, ruined city of Mándo or Mándogarh: the small Bheel village of Mograba lies to the N.E. at about \(\frac{3}{4} \) of a mile in direct distance from the station: pargana Nálchha, Dhár State, Bhopáwar Agency.

The station consists of a platform having its upper surface flush with the ground, which contains two marks, the lower, on a large stone set in the muram (a kind of gravel), is 0.40 of a foot below the one in the surface of the platform. It was visited in 1869, when the upper mark-stone was found firmly imbedded. When again visited in 1883, the station was found in good order and covered over by a protecting masoury pillar 3 feet, 8 inches high, but as the upper diameter was too small to admit of the theodolite, the upper 6 inches of the pillar were removed. The directions and estimated distances of the circumjacent villages are:—Talwara N. by E., miles 8; Murkhál S., miles 2½; and Mandauda S.S.W., miles 3:

XV. Singarchori Hill Station, lat. 22° 25′, long. 75° 43′—observed at in 1S47—is situated on the highest part of a range of hills so called, lying about 3½ miles E.S.E. of the village of Manpur on the high road from

Bombay to Agra, and $11\frac{3}{4}$ miles S.S.W. of the cantonment of Mhow. The hill is about 1000 feet in height: Mánpur State, Bhopáwar Agency.

The station was denoted by two marks, the upper 1.79 feet above the lower. When visited in 1883, a masonry pillar 2 feet in diameter and 3 feet above ground level surrounded by earthwork about 2 feet high was found; there being no mark-stone on the pillar its upper portion was removed and a mark-stone embedded in its centre 1.75 feet above the ground level. The directions and estimated distances of the following villages are:—Bargaon N.W. by N., miles 1½; Mograpura E.S.E., miles 1½; and Nayapura E. by N., miles 1½.

XVI. Gumánpur Tower Station, lat. 22° 35′, long. 74° 55′—observed at in 1847—is situated on rising ground about $\frac{3}{4}$ of a mile S. of the village of that name and about 200 yards N. of the edge of the Ghát, and $5\frac{1}{3}$ miles N. by E. of the large village of Tanda. It is in the lands of the village of Gumánpur, Amjhera State, Bhopáwar Agency.

The station of 1847 consisted of a loose stone platform with a mark-stone at top 7.48 feet above one let into masonry at the ground level. In 1869 the platform was removed and a perforated and isolated pillar of masonry, 7.48 feet in height, built above the original mark at the ground level, and surrounded by a platform of stones: a passage from N. to S. gives access to the ground level mark. When again visited in 1883, the station was found to consist of a pillar of masonry 5.3 feet high and 3 feet in diameter with a mark-stone in its upper surface, and surrounded by a platform of loose stones. The directions and distances of the circumjacent villages are:—Ratanpura N.E. by N., miles 2; Ringnod E.N.E., miles 4; Nawapura E. by S., miles 1½; and Urai W.N.W., mile 4.

XVII. Thíkri Hill Station, lat. 22° 1′, long. 75° 27 —observed at in 1847—is situated on a knoll, 40 yards long, 20 yards wide, and 20 feet high, at the S. extremity of a table-land which rises about 300 feet above the general level of the surrounding country. It is about 3½ miles S. by E. of the Police Station of Thíkri on the high road from Bombay to Agra: pargana Dharampuri, Dhár State, Bhopáwar Agency.

The station consists of a platform of loose stones enclosing a solid circular pillar of masonry which contains two marks, one at the surface 1.25 feet above the other which is engraved on the rock. When visited in 1869, the upper mark-stone was found firmly fixed; it was again visited in 1883, when the station was found protected by a rectangular capping pillar $3\frac{1}{2}$ feet high built over the circular pillar level with the surface of the knoll. The directions and distances of the circumjacent villages are:—Rarkot S. by E., mile 1; Rupkhera S.W. by W., miles $1\frac{1}{3}$; Khurrampur (on the high road) W., miles $4\frac{1}{3}$; and Nader N.N.E., miles 2.

XVIII. Báwangaz Hill Station, lat. 21° 59′, long. 74° 51′—observed at in 1847—is on the terraced roof of a temple which is built of fine slabs of granite, on the highest part—a peak—of a remarkable hill called Báwangaz, about 5 thiles S. of the Nerbudda river. The temple is dedicated to a god whose colossal figure is cut on the rock in bold relief, about 600 feet below, on the southern face or scarp of the hill. The station is almost in the centre of the flat portion of the roof E. of the dome, 13·42 feet from the nearest part of the circumference of the dome, 11·42 feet from the outside of the N. wall, and 12·75 feet from the outside of the S. wall; the roof of the temple is 10 feet above the ground. The station is in the lands of the village of Barwáni, Barwáni State, Bhopáwar Agency.

The station consists of a solid circular pillar of masonry which contains two marks, the upper 0.44 of a foot above the one engraved on a slab of granite of the roof. When visited in 1869 and 1883 the station and its upper mark-stone were found in good preservation. The directions and distances of the circumjacent places are:—Barwani town N.E., miles 4½; Chilkalda town N. by E., miles 7; Bhomia village N., miles 2½; Mangarpati and Kachkor (on the Goi stream) W.N.W., miles 3½; and Wadgaon E.N.E., miles 4.

XIX. Jalálabad Hill Station, lat. 21° 41′, long. 75° 27′—observed at in 1847—is situated on the highest peak of the same range of hills as that on which the old, ruined fort of Bijagarh stands and from which it lies 3½ miles in a direction E. by S. The station is in the lands of the village of Náráyangarh, pargana Khargon, Holkar's territory.

The station consists of a platform of loose stone masonry containing two marks, one at the surface and the other 0.44 of a foot below. It was visited by Lieutenaut Heaviside in 1869, when the upper mark-stone was found in position, and about 2½ feet above the ground level. In 1883 and 1884, the station was found in good preservation and the upper mark-stone in position. The directions and distances of the circumjacent villages are:—Sangvi N.N.W., miles 4; Bhadwali N., miles 4¼; Sirwil Chauki (police station) and temple S.E. by S., miles 4¼; and Dhaura S.W. by S., miles 2½.

XX. Bábákuvar (Bábákuvar) Hill Station, lat. 21° 36′, long. 74° 57′—observed at in 1847—is situated on the main ridge of the Sátpura hills, about 9½ miles N.W. by W. of the Dâk Bungalow at Palásner on the high road from Bombay to Agra, and 550 feet E. of an idol at the W. extremity of the hill. The station is in the lands of the village of Boradi, taluka Shirpur, district Khándosh.

The station consists of a platform of loose stone masonry containing two marks, one at the surface and the other 1.67 feet

below. When visited in 1883 and 1884, the station was found in good preservation and the upper mark-stone in position. The height of the platform is about 1 foot from the ground level. The directions and distances of the circumjacent villages are:—Chaparkhera N.E., miles 4½; Rajmali E., miles 4½; Vakvar S.E. by E., miles 5; and Khera S.E. by S., miles 64.

XXI. Argaon Hill Station, lat. 21° 18′, long. 75° 34′—observed at in 1847—is situated on a high peak of the Satpuda range, rising some 2500 feet above the plains of Khandesh. The peak which is known by the name of Mondhiamal, is about 1½ miles W. of the ruins of Gauligarh, and 5½ miles N.N.W. of Argaon village. A small conical peak is 50 yards to S.E. The station is in the lands of the village of Bhadgaon, taluka Chopda, district Khandesh.

The station consists of a platform of loose stone masonry containing two marks, one at the surface and the other 0.81 of a foot below engraved on the rock. In 1869 Lieutenant Heaviside found the upper mark-stone in position and nearly on the same level as the highest part of the peak. When again visited in 1884, the upper mark-stone and platform were found in good preservation. The azimuths and estimated distances of the circumjacent villages are:—Dhánora 4°, miles 6½; Adávad 42°, miles 8; Birgaon 6°, miles 6; and Mahorad 356°, miles 4½.

XXII. Ajnád Hill Station, lat. 21° 19′ long. 75° 5′—observed at in 1847—is situated on a long, high ridge running nearly in a direction W.N.W. and E.S.E. and parallel to road to south from Shirpur to Tanda on the Ancr river, about 2 miles N. of Ajnád village. The station is in the lands of the village of Ajnád, taluka Shirpur, district Khándesh.

The station consists of a platform of loose stone masonry containing two marks, one at the surface and the other 0.67 of a foot below engraved on the rock. When visited in 1884, the upper mark-stone and platform were found in good preservation. The azimuths and distances of the circumjacent villages are:—Babla 340°, miles 2½; Tarli 321°, miles 3½; and Bhatpur 28°, miles 3.

XXIII. Valvádi (Walvári) Hill Station, lat. 20° 44′, long. 75° 14′—observed at in 1846—is situated near the N.W. extremity of a group or range of low hills about 90 feet in height. The station is about 20 yards from the W. edge of a flat, rocky hill, whose summit is 150 yards long and 30 yards wide. The station is in the lands of the village of Valvádi, taluka Páchora, district Khándesh.

The station consisted of a platform of loose stone masonry having a mark at its surface and another 2.00 feet below it engraved on the rock in sita. A heap of stones, apparently the station platform of some former survey, was found here: the centre of this heap was made the site. It was visited in 1870 by Lieutenant Heaviside, when the upper mark-stone was not found, the platform was partly dug up and a solid circular pillar of masonry was built up from the level of the lower mark to a height of 2 feet and a mark-stone inserted in its upper surface. When again visited in 1884, the station was found protected by a rectangular pillar 2.8 feet high built over the circular masonry pillar. The directions and estimated distances of the circumfacent villages are:—Mandla S.W. by S., miles 4; Titi W. by N., miles 2½; Chorvár N., miles 2; and Valvádi S.E. by S., miles 1½.

XXIV. Dhanvár (Dhanvár) Hill Station, lat. 20° 53′, long. 75° 38′—observed at in 1846—is on the southern of a group of low, flat-topped hills which rises some 70 feet above the low range from which it springs, and is some 200 feet above the level of the country. The top of the hill is pear shaped, the station being about 20 yards from the narrow end and 60 yards from the broader. The station is in the lands of the village of Dhanvár, taluka Jalgaon, district Khándesh.

The station consists of a platform having the usual mark at its surface and another 0.98 of a foot below. In 1869 the upper mark-stone was in position and about 2 feet above the hill top. When visited in 1884, the upper mark-stone was found in the centre and upper surface of a platform 2 feet high. The azimuths and estimated distances of the circumjacent villages are:

Dhanora 186°, miles 2; Karmar 300°, miles 2; Dehori 210° miles 1½; and Palaskhera 350°, miles 4.

XXV. Anakvádi (Anakvári) Hill Station (locally known as Silla Dongar) lat. 20° 47′, long. 74° 44′—observed at in 1846 and 1847—is on the summit of a conical hill about 1000 feet above the plain and some 700 feet above the lower range from which it rises with precipitous sides. The station mark is 20 feet S.E. of a small heap of stones forming a shrine: it is in the lands of Anakvádi village, taluka Dhulia, district Khándesh.

The station consists of a platform having two marks, one in its upper surface and the other 2.5 feet below it. It was visited by Lientenant Heaviside in season 1868-69, who stated that "A mark-stone is in position and on a level with the surface of the ground." When again visited in 1881, the upper mark-stone was found protruding 6 inches above the surface of the three large stones on which the theodolite stand rested; this upper mark is 3.2 feet above and in the normal of the lower one engraved on the rock in sitd. The directions and estimated distances of the circumjacent villages are:—Anakvádi S. by W., miles 1½; Sargaon N.W. by W., miles 3; Dhulia N.E. by N., miles 10; Laling (fort) E.N.E., miles 4; and Arvi (Dák Bungalow) S.S.E., miles 2½.

XXVI. Sirsála Hill Station, also called Shekh Múru Pír, lat. 20°30', long. 75°34'—observed at in 1816—is on a hill about 200 feet high close to the N. edge of the table-land which rises gradually from the Godávari

river and here terminates in a northerly direction by a descent of some 1200 feet into the plains of Khándesh. About 1½ miles W. of the station and built in a gorge above a precipice of the table-land, is an uninhabited fort which contains a temple dedicated to Mahádev. The station is in the lands of the village of Sirsála, taluka Nánded, district Aurangabad.

The station consists of a platform of stones having a mark at its surface and another 0.83 of a foot below engraved on the rock in siti. In 1869 Lieutenant Heaviside found the upper mark-stone in position and about 2 feet above the hill top. When again visited in 1884, the platform and lower mark were found in good preservation, the upper mark-stone was replaced (having been picked up from the hill side) at 0.83 of a foot above and in the normal of the lower mark. The azimuths and estimated distances of the circumineent villages are:—Kelgaon 37°, miles 2½; Borkhera 173°, miles 3; Sirsála 313°, miles 1½; Shekhpur 345°, miles 3; and Pipalgaon 354°, miles 3.

XXVII. Sátmála Hill Station, lat. 20° 20', long. 75° 10'—observed at in 1846—is on a hill so called, about 2 miles W. of a chauki (police station) on the Ganthála Ghát, and 5 miles N. of the taluk town of Kanad. The line of Gháts extends about 15 miles further west, and its descent to the plains to north is considerable. The station is in the lands of the village of Ganthála, taluka Kanad, district Aurangabad.

The station originally consisted of a platform about 5 feet high, having a mark-stone at its surface and another 5 00 feet below. In season 1816-47, the platform was raised 4 04 feet. When visited in 1884, the platform was found 9 feet high, built of loose bonders, having a mark-stone on its summit not firmly fixed, as the structure was too shaky for observation the upper portion was removed till the mark-stone said to be 5 feet above the ground level was disclosed wedged in between three large stones used for the theodolite stand to rest on. As this part was firm and adapted for observations, the platform was built up to the level of this mark. No masonry pillar appears to have been built here, nor could one be creeted now as both water and labour were difficult to obtain. The azimuths and estimated distances of the following places are:—Bamni 345°, miles 5½; and Hevadgaon 350°, miles 4½.

XXVIII. Pophla Hill Station, lat. 20° 2′, long. 75° 81′—observed at in 1846—is on the highest part of a hill, 1½ miles N. E. of that village, a vadi (garden) of which is close below the station. It is 7.25 feet (20° N. of W.) from the centre of a tomb. The station is in the lands of the village of Pophla, taluka Phalamri, district Aurangabad.

The station consisted of a platform having a mark-stone at its surface and another 1.08 feet below. When visited in 1884, no mark-stones were found, the platform, with an excavation in the centre, remained to mark the site of the station. A mark-stone was built into the centre of the platform—7.25 feet from, 20° N. of W. of the centre of the tomb (above mentioned), and on a level with the upper surface of the platform which is 1.25 feet above the surface of the hill. The azimuths and estimated distances of the following villages are:—Kamkhera 3°, miles 3; Modhai 56°, miles 2; Chincholi 91°, miles 1½; Bamangaon 212°, miles 2; and Väghul 266°, miles 2.

XXIX. Rájur Hill Station, lat. 20° 4′, long. 75° 54′—observed at in 1846 and 1862—is on a small conical hill about 200 yards W. of the village, and N. W. of a large temple, about 50 feet high, built of most elaborately carved stone, having two tiers of pillars above its base which is 13½ feet high. The horizontal distance of the station to the N. W. pillar of the first tier is 68'8 feet, and that to the N. W. corner of the base, 66 feet. The station is in the lands of the village of Rájur, taluka Jastrabad, district Aurangabad.

The station first consisted of a platform 14 feet high with two mark-stones, a large one, about 3 feet square and 2 feet thick, at the top and another 13:75 feet below about the ground level. It was visited in 1862 and then rebuilt to a height of about 20 feet. When again visited in 1881, the surrounding platform was found to have fallen away leaving the upper 12 feet of the circular masonry pillar exposed, this was rebuilt with stones. The upper mark-stone was in position, 20:25 feet above and in the normal of the mark at the ground level. The azimuths and estimated distances of the following villages are:—Chanaigaon 32°, miles 2; Taplichandai 112°, miles 1½; Kamkhera 212°, miles 1½; Lon 283°, miles 2; and Tapon 327°, miles 1½.

XXX. Yerál Hill Station, lat. 19° 59′, long. 75° 12′—observed at in 1846—is on the high table-land, about 2½ miles S. of the celebrated cave temples. The station is 418 feet W. of a conspicuous Bar tree, 1949 feet E.N.E. of an old station of the Bombay Trigonometrical Survey, and 60 feet from the southern and 525 feet from the northern edge of the hill. It is in the lands of the village of Súribhanjan, taluka Rŏza, district Aurangabad.

The station consisted of a platform with two mark-stones, one at the ground level and the other 2·13 feet below. In 1870 the upper mark-stone was not found, but the lower one was probably in position. A pile of stones about 3 feet in height was then erected over the platform. When again visited in 1881, no mark-stones were found and only a heap of boulders marking the site of the platform. The platform was rebuilt to a height of 1 foot, taking the centre of the heap of boulders as a guide and a mark was placed in the centre and on a level with its upper surface. The position of this mark was tested by observing the horizontal angles between the four adjacent stations with a 14-inch theodolite which showed no appreciable difference with the angles measured in 1846. The estimated directions and distances of the following places are:—Daulatabad (minaret) S.E., miles 42; Chumar Tekri (centre of hill fort) S.E. by S., miles 8 or 9; and Daulatabad (Röza, mausoleum) N.E., miles 31.

XXXI. Jamkhed Hill Station, lat. 19° 41′, long. 75° 42′—observed at in 1845, 1816 and 1862—is situated on a square, flat-topped knoll rising about 20 feet above the surface of the irregular plateau like range trending east and west and terminating about 150 feet to the east of the station in an abrupt fall to the plain below, and lies about 2 miles N. of the town of Jamkhed. The station is in the lands of the village of Rhailgarh, taluka Ambad, district Aurangabad.

The station of 1846 consisted of a platform containing two mark-stones, the lower 163 feet below the one at the surface of the ground. When visited in 1862, the mark at the ground level of the old station was found and over this a circular perforated and isolated pillar of masonry 3½ feet in diameter was built, carrying a mark in its upper surface 3'00 feet above the one at the ground level, access to which was obtained by a passage constructed for the purpose. When again visited in 1884, the circular masonry pillar and the rectangular aperture for plumbing over the mark at the ground level were found in good preservation, but no upper mark. The height of the upper surface of the pillar above the one at the ground level is 3 feet. The azimuths and estimated distances of the following villages are:—Jamkhed 4°, miles 2½; Rhailgarh 180°, miles 2; Kingaon 271°, miles 2; and Vitalvádi 386°, miles 1½.

XXXII. Áhirmal Hill Station, lat. 19° 33′, long. 76° 7′—observed at in 1862—is situated on an isolated hill of that name, about 1½ miles N.E. by N. of the village of Dhákephal. The platform of the station is built contiguous to a Muhammadan mosque. It is in the lands of the village of Dhákephal, taluka Ambad, district Aurangabad.

The station consists of a platform of loose rubble, enclosing a central, isolated and perforated pillar of masonry 5 feet in height. Access to the lower mark is obtained through a passage specially constructed for the purpose. When visited in 1894, the circular masonry pillar and the mark in its upper surface were found in good preservation. The azimuths and estimated distances of the circumjacent villages are:—Dhargaon 5°, miles 3½; Hadgaon 115°, miles 1½; Jaula 169°, mile 1; and Jhirgaon 260°, miles 2½.

XXXIII. Mathuri Hill Station, lat. 19° 11′, long. 75° 32′—observed at in 1845 and 1862—is on the N.W. corner of the temple built on the conical hill 1½ miles E. of Mathuri village, over the junction of the walls of the smaller shrine: it is in the lands of the village of Mathuri, taluka Bid, Nizam's territory.

The station of 1845 contained two marks, the one imbedded in the stone masonry of the wall 138 feet below the upper which was fixed at the level of the roof which is 10 feet above the ground. When visited in 1862, the mark on a level with roof of the temple was found in position, over which a solid, circular pillar of masonry was built carrying a mark in its upper surface 1:17 feet above the one level with the roof. When again visited in 1884, the upper portion of the circular masonry pillar was found broken and the upper mark-stone removed; but the mark of 1845 on a level with the roof of the temple was found in position. The pillar was rebuilt to a height of 1:17 feet above the roof of the in its upper surface. The directions and distances of the circumjacent villages are:—Bhorgaon S. by ...

W.S.W., miles 4½; Titurvani E. by S., miles 1½; and Malegaon W. by N., miles 3§.

XXXIV. Dhaigaon Station, lat. 19° 31′, long. 75° 15′—observed at in 1845—is situated on the high ground, about 1½ miles S. of the Vagji stream which joins the Godávari river at 2½ miles to N.E. of the station. It is in the lands of the village of Dhaigaon, taluka Nevása, district Ahmednagar.

"The soil was exervated to a depth of about 4.75 feet and 2½ feet below the muram (a kind of gravel), a large stone, about 4 feet long and 1 foot square, with the usual mark on its upper surface, was imbedded in the muram. From the surface of the muram a pillar of stone masonry about 4 feet in diameter has been built up and raised about 2 feet above the ground. A platform of loose stones has been built around the pillar and a stone with the usual mark placed at its surface at the height of 20½ (?) above the mark on the large stone". When visited in 1884, the pillar and the mark were found in good preservation. The azimuths and perambulated distances of the following are:—Dhaigaon (large pipal tree S. of village) 76°, miles 1.95; Gheori (temple) 306°, miles 2.06; and Devlána (temple on right bank of the Godávari) 219° miles 2.29.

XXIII. (Of the Bombay Longitudinal Series). Chincholi Hill Station, lat. 18° 55′, long. 75° 19′—observed at in 1815—is situated on a short narrow ridge about 300 feet long trending east and west nearly, and 30 feet higher than the level of the surrounding plateau. The station is on the western end of the ridge while a large bar tree marks the eastern extremity. The large village of Ashti on the high road from Ahmednagar to Jamkhed lies about 10 miles to S.W. by S. and that of Amaluer 4 miles to E. by N. of the station. It is in the lands of the village of Chincholi, taluka Ashti, Nizam's territory.

The station consists of a solid platform and contains two marks, the one at its surface is 0.83 of a foot above one fixed in 1834. When visited in 1884, the station was found to consist of a circular masonry pillar 2.8 feet in diameter at top with a mark-stone embedded flush with its upper surface; the pillar is surrounded by a large irregular shaped platform of loose boulders from which it is not isolated. Judging from the appearance the pillar does not appear to be very incient. The height of the upper mark above the ground level is 10.6 feet. The azimuths and distances of the circumjacent villages are:—Chikhli 18°, miles 2; Chincholi 34°, mile 2; and Gaugarvadi 67°, miles 23.

XXIV. (Of the Bombay Longitudinal Series). Agargaon Hill Station, lat. 19° 11′, long. 74° 55′—observed at in 1845—is situated on a low part of an extensive and irregularly shaped table-land, about 1 mile N. of that village, and 6½ miles E. by N. of Shendi which is ½ a mile E. of the high road from Ahmednagar to Aurangabad. It is in the lands of the village of Agargaon, taluka Nagar, district Ahmednagar.

The station as originally built consided of a platform of loose stone masonry and contained three mark-stones, one at the ground level and the other two 7:13 and 1354 feet respectively above it. When visited in 1882, the station was found to consist of a mound of loose boulders about 10 feet high and 30 feet in diameter, having a post—erected by a Survey Party about 2 or 3 years ago—rising 3½ feet above it, the mound was raised 16:43 feet above a bench-mark on the ground level and a mark-stone inserted at that height. When again visited in 1883, the upper mark-stone was found in position and protected by the usual rectangular pillar of masonry. The directions and distances of the following places are:—Ahmednagar S.W., miles 9; Ranjani S.E. by E., miles 2½; Ralhar N.E. by N., miles 2½; Pimpalgaon Uzani W. by S., miles 3½; and Decgaon S.W., miles 3.

Norm.—In some instances the names of Principal Stations, occurring in the foregoing descriptions, are given by two methods of spelling distinguished from each other by the use of R man and Italic type, as Station XXV Analysid (Analysid); the latter spelling is in keeping with that adopted in the pages containing the observed angles printed in March 1879, which was based on a list of names of places for the Bombay Presidency published under the orders of the Government in September 1875; the spelling in Roman type is in accordance with that in a revised edition of the same published in 1880, and with the list of names for the Dominions of His Highwess the Niram, published in February 1883. It will be seen that the two methods differ but slightly, notwithstanding where differences occur, both renderings are given so as to remove all possible doubt as to the identity of a station. The method of spelling in Roman type is hereafter exclusively adopted in the publication of this Beries.

February, 1889.

M. W. ROGERS,
In charge of Computing Office.

PRINCIPAL TRIANGULATION. TRIANGLES.

Friangle	Station	Spherical Excess	Corrected Plane		Distance	
	Rálán	 		Log. feet	Feet	Miles
1	Bálágara, XXIV Búda, XXI Dhamnár, II	59	80 17 42 41 70 28 25 72	5'1011137	126215.8	23.905
. 2	Búda, XXI Dhannár, II	.61	29 13 51.87	5.0816499 4.7960898	62530-2	22.857
	Sitamau, I : Búdo, XXI	62	39 23 51 52 50 50 6 06 89 46 2 42	4,9036849 4,9906042 5,1011137	80109·7 97859·8	15.172 18.534
8	Bálágara, XXIV Sítamau, I	46 45 45	109 52 17 98	5 1 2 3 3 3 0 0	132840.4	23.905
4	Sitamau, I Dhamnár, II		26 16 32.00	4*9906042 4*7960898	97859·8 62530·2	18.534
	Nigrun, III Sitamau, I	58 58 58	68 13 48·51 47 6 14·68	4 9949085 5 0066897 4 9036849	98834.5	18.219
5	Nigrun, III Dudhála, IV	1.01	49 49 10.28	5 1007639	80109.7	23.885

North.—1. The values of the side are given in the same line with the opposite angle.
2. Stations Biligara, XXIV and Buds, XXI apportain to the Karachi Longitudinal Series of the North-West Quadrilateral.

No. of		Spherical	Corrected Plane		Distance	,
Triangle	Station .	Excess	Angle	Log. feet	Feet	Miles
6	Dudhála, IV Nigrun, III Deo Dongri, V	" 1 · 22 1 · 22 1 · 22	0 / " 47 4 33.98 84 21 17.45 48 34 8.57	5.0002100 5.5237339 5.0002100	123171°4 167391°7 126114°2	23·328 31·703 23·885
, 7	Dhamnár, II Nigrun, III Lohári, VI	·84 ·84 ·84	72 37 29 94 58 53 12 01 48 29 18 05	5·1002476 5·0530789 4·9949085	125964°3 113000°1 98834°5	23.857 21.402 18.719
8	Nigrun, III Lohári, VI Deo Dongri, V	1 · 19 1 · 19	77 26 24'92 50 28 43'55 52 4 51'53	5.1927175 5.0002476 2.1005	155853.8 123171.4 125964.3	29.518 23.338 23.857
9	Lohári, VI Deo Dongri, V Dhanora, VII	1,10 1,10 1,10	46 17 18:39 51 45 4:49 81 57 37:12	5.0560419 5.0920595 5.1927175	113773'7 123611'7 113773'8	21.248 23.411 29.218
10	Deo Dongri, V Dhanora, VII Gurla, VIII	*44 *44 *45	61 51 12·38 '29 24 46·44 88 44 1·18	5.0014904 4.443148 5.0260419	100343·8 55887·9 113773·7	19°005 10°585 21°548
11	Dhanora, VII Gurla, VIII Karsod, IX	*49 *50 *50	48 53 16.85 53 57 37.26 77 9 5.89	4.8895432 4.9202418 5.0014904	77543°1 83222°7 100343°8	14·686 15·762 19·005
12	Lohári, VI Dhanora, VII Kaula-ka-Máta, XI	*47 *48 *47	16 59 22.02 126 2 39.02 36 57 58.96	4.7786086 5.2206490 5.0920595	60063·2 166206·9 123611·7	11.376 31.479 23.411
13	Dhanora, VII Karsod, IX Kaula-ka-Máta, XI	*38 *38 *38	73 41 37.68 40 58 53.45 65 19 28.87	4°9439963 4°7786086 4°9202418	87901.5 60063.2 83222.7	16.648 11.376 15.762
14	Gurla, VIII Karsod, IX Jalálkheri, X	*40 *40 *40	82 4 29.27 43 34 58.10 54 20 32.63	4.9755439 4.8181844 4.8895432	94524°4 65793°7 77543°1	17.461 14.686
15	Jalálkheri, X Karsod, IX Harnása, XII	.92 .92	56 8 23.26 84 32 50.20 39 18 46.24	5.0930463 5.1717896 4.9755439	123892.9 148521.6 94524.4	23.465 28.129 17.902
16	Kaula-ka-Máta, XI Karsod, IX Indráwan, XIII	*80 *79 *79	83 38 7·10 56 42 6·59 39 39 46·31	5°1363075 5°0611079 4°9439963	87901.2 112108.6 136860.2	25.922 21.801 16.648
17	Karsod, IX Harnása, XII Indráwan, XIII	1,13	57 2 1.66 66 42 58.71 56 14 59.63	5.0930463 5.1363075 5.0930463	123892.9 136869.7 125013.8	23.677 25.922 23.465
18	Harnása, XII Indráwan, XIII Mograba, XIV	1,23	66 0 2.97 70 2 22.61 43 57 34.42	5.2162374 5.2285994 5.0969581	164527°1 169277°6 125013°8	31,160 35,060 31,160
19	Harnása, XII . Mograba, XIV Singárchori, XV	1.34 1.34 1.34	44 16 33.03 56 44 48.04 78 58 38.93	5.0806120 5.1590244 5.2285994	120396.0	22 802 27 314 32 060
20	Singárchori, XV Mograba, XIV Thíkri, XVII	1.52 1.52 1.52	52 47 43.93 81 59 45.88 45 12 30.19	5°1307296 5°2253018 5°0806120	135123.1	25.201 31.818 22.802

		0.1		.,,,,	Distance	
No. of Triangle	Station	Spherical Excess	Corrected Plane Angle	Log. feet	Feet	Miles
21	Indráwan, XIII Mograba, XIV Gumánpur, XVI	1.60 1.60	67 9 37 79 47 32 2 24 65 18 19 97	5°2224298 5°1257558 5°2162374	166889 8 133584 4 164527 1	31.608 31.160
22	Gumánpur, XVI Mograba, XIV Báwangaz, XVIII	2°58 2°59 2°58	65 59 27.74 67 56 19.04 46 4 13.22	5°3256814 5°3319590 5°2224298	211680.8 214762.8 166889.8	40°091 40°675 31°608
23	Mograba, XIV Báwangaz, XVIII Thikri, XVII	1,88 1,88	61 49 20.08 38 51 2.15 79 19 37.77	5·2784758 5·1307296 5·3256814	189878·5 135123·1 211680·8	35°962 25°591 40°091
24	Thíkri, XVII Báwangaz, XVIII Jalálabad, XIX	1.85 1.85	85 13 40.81 34 30 59.66 60 15 19.53	5°3383251 5°0931439 5°2784758	217934°1 123920°7 189878°5	41 275 23 470 35 962
25	Báwangaz, XVIII Jalálabad, XIX Bábákuvar, XX	1.83 1.83	50 26 42 92 41 55 22 11 87 37 54 97	5.2257597 5.1635562 5.3383251	168174*4 145732*4 217934*1	31.851 27.601 41.275
26	Báwangaz, XVIII Thíkri, XVII Bábákuvar, XX	2-18 2-17 2-17	84 57 44 18 39 20 40 30 55 41 35 52	5°3597984 5°1635562 5°2784758	228980°4 145732°4 189878°5	43.368. 27.601 35.962
27	Bábákuvar, XX Jalálabad, XIX Ajuád, XXII	1,43 1,43	77 18 58.03 36 45 12.37 65 55 49.60	5°2545349 5°0422364 5°2257597	179694°5 110213°9 168174°4	34 °033 20 °874 31 °851
28	Jalálabad, XIX Ajnád, XXII Árgaon, XXI	1.4 1.4 1.4	60 31 43 41 47 53 53 52 71 34 23 07	5 · 2172132 5 · 1477707 5 · 2545349	164897·2 140530·6 179694·5	31 · 231 26 · 616 34 · 033
29	Bábákuvar, XX Jalálabad, XIX Árgaon, XXI	1.85 1.85	36 51 4.70 97 16 57.08 45 51 58.22	5°1477707 5°3662899 5°2257597	140530.6 232428.8 168174.4	26 616 44 021 31 851
30	Ajnád, XXII Árgaon, XXI Valrádi, XXIII	2°70 2°70 .2°70	76 8 33 07 61 15 37 11 42 35 49 82	5°3738995 5°3296346 5°2172132	236537 · 2 213616 · 4 164897 · 2	44*799 40*458 31*231
31	Árgaon, XXI Valvádi, XXIII Dhanvár, XXIV	1.82 1.82 1.83	38 51 17.77 40 19 17.93 100 49 24.30	5 1792053 5 1926514 5 3738995	151079 4 155830 1 236537 2	28.614 29.513 44.799
32	Ajnád, XXII Árgaon, XXI Dhanvár, XXIV	1,00 5,00 5,00	38 35 9°34 100 6 57°40 41 17 53°26	5-1926514 5-3908799 5-2172132	155830°1 245968°7 164897°2	29°513 46°585 31°231)
83	Dhanvár, XXIV Valvádi, XXIII Sirsála, XXVI	1°45 1°46	58 39 52:48 57 45 23.61 63 34 43.91	5°1586444 5°1543786 5°1792053	144093.5 142685.1 151079.4	27.290 27.024 28.614
31	Ajnád, XXII Valvádi, XXIII Anakvádi, XXV	2.68 2.69 2.69	44 52 42 53 71 27 23 56 63 39 53 91	5·2257841 5·3540683 5·3296346	168183.8 225979.1 213616.4	31.853 (42.799 40.458
35 `	Anakvádi, XXV Valvádi, XXIII Sátmála, XXVII	1 96 1 96	42 38 37.84 87 7 0.47 50 14 21.69	5-1708844 5-3394641 5-2257841	148212 4 218506 4 168183 8	28.071 41.384 31.853

No. of	Sheet	Spherical	Corrected Plane		Distance	
Trianglo	Station	Excess	Angle	Log. feet	Feet	Miles
36	Valvádi, XXIII	1 · 47	60 44 52.51	5°1698059	147844°7	28.001
	Sirsála, XXVI	1 · 47	61 0 11.87	5°1708844	148212°4	28.001
	Sátmála, XXVII	1 · 47	58 14 55.62	5°1586444	144093°5	27.500
37	Sirsála, XXVI Sátmála, XXVII Pophla, XXVIII	1.21	60 41 43.38 65 50 52.17 53 27 24.45	5.2054011 5.2250845 5.1698059	160472°7 167913°1 147844°7	30.303 30.303
38	Sirsála, XXVI Pophla, XXVIII Rájur, XXIX	1.43 1.43	41 43 26.80 80 23 2.18 57 53 31.02	5°1203540 5°2910314 5°2250845	131933·2 195448·1 167913·2	24.987 37.017 31.802
39	Pophla, XXVIII	1 · 42	67 22 46·14	5°1911635	155297°1	29.412
	Rájur, XXIX	1 · 41	60 58 25·86	5°1676370	147108°2	27.861
	Jámkhed, XXXI	1 · 41	51 38 48·00	5°1203540	131933°2	24.987
40	Sátmála, XXVII	1°14	43 16 33.97	5.0450926	110941°1	21.012
	Pophla, XXVIII	1°14	54 10 0.68	5.1179495	131204°8	24.849
	Yerúl, XXX	1°14	82 33 25.35	5.2054011	160472°7	30.393
41	Pophla, XXVIII Yerúl, XXX Jámkhed, XXXI	I '25 I '24	104 36 39°30 43 52 32°79 31 30 47°91	5·3125663 5·1676370 5·0450926	205383°9 147108°2 110941°1	38.898 27.861 21.015
42	Rájur, XXIX	1.80	47 39 8·77	5·1718949	148557·6	29.136
	Jámkhed, XXXI	1.81	81 45 34·19	5·2987007	198930·2	37.676
	Áhirmal, XXXII	1.80	50 35 17·04	5·1911635	155297·1	29.136
43	Áhirmal, XXXII	2°23	51 39 22.61	5°2799183	190510.5	36.081
	Jámkhed, XXXI	2°24	90 38 20.90	5°3854073	242888.4	46.002
	Mathuri, XXXIII	2°3	37 42 16.49	5°1718949	148557.6	28.136
44	Yerúl, XXX	2.12	50 56 31·86	5°2169643	164802·7	31.513
	Jámkhed, XXXI	5.12	53 39 19·99	5°2328657	170948·7	35.324
	Dhaigaon, XXXIV	5.12	75 24 8·15	5°3125663	205383·9	38.898
45	Jámkhed, XXXI Dhaigaon, XXXIV Mathuri, XXXIII	1.05 1.05	50 46 58·24 73 16 31·92 55 56 29·84	5·1878535 5·2799183 5·2169643	154118.0 190510.2 164802.7	31,513 30,081 50,180
46	Dhaigaon, XXXIV	2°04	82 51 24.07	5.3306386	214110·8	40°551
	Mathuri, XXXIII	2°04	51 33 51.00	5.2279535	169026·0	32°013
	Agargaon, XXIV	2°04	45 34 44.93	5.1878535	154118·0	29°189
47	Mathuri, XXXIII Agargaon, XXIV Chincholi, XXIII	1.20 1.22	50 49 39:38 33 29 7:07 95 41 13:55	5·2222227 5·0745027 5·3306386	166810°2 118714°2 214110°8	31.593 22.484 40.551
48	Dhaigaon, XXXIV	1°41	32 50 48·17	5°0745027	118714·2	22:484
	Mathuri, XXXIII	1°41	102 23 32·57	5°3299499	213771·5	40:487
	Chincholi, XXIII	1°41	44 45 39·26	5°1878535	154118·0	29:189

Note.—Stations Chincholi XXIII and Agargaon XXIV apportain to the Bombay Longitudinal Series of the Southern Trigon.

November, 1892.

J. ECCLES,

In charge of Computing Office.

SECONDARY TRIANGULATION. TRIANGLES.

PRINCIPAL-AUXILIARY AND SECONDARY STATIONS, AND INTERSECTED POINTS.

Differences between the common sides of two triangles are shown by the small figures in the 5th and 12th columns between the data of the triangles, the first in order having supplied the greater value.

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elite	boodT sea	Inch 15	,2,2) <u>, , , , , , , , , , , , , , , , , , ,</u>	A	
	Miles	13.830 15.896 19.233	119260 22°587 48970 9°275 126114 23°885	22,587	14,359	75818 14.359 97076 18.386 101552 19.233
Distance	Feet	73021 83928 101552	119260 48970 126114	1119260 126560 101552	75818 68765 126114	75818 97076 101552
	Log. feet	8 10 4.863445 33 15 4.923909 5.006690	5.076495 4.689926 5.100764	5.076495 119260 5.102296 126560 5.006690 101552	4.837367	44,48 30 4.879770 64,28 0 4.987111 70,43,30 5.006699
Corrected Plano Angio		54 33 15 4.923939 54 33 15 4.923939	70 42 44 22 48 II	61 54 0	30 53 .4 27 44 47 121 22 9	44 48 30 4 879770 64 28 0 4 987117 70 43 30 5 006693
Station		ħ.s.			. j. j.	n.
		Sitomau, I Nigrun, III Parlia	Dudhála, IV Nigrun, III Gualed Hill Tree	Stamau, I Nigrun, III Gualed Hill Tree	Dudhala, IV Nigrun, III Tarauli	Sitaman, I Nigrun, III Tarauli
· 10 . ofgu	oN sixT	ភ្លៃ	18	. 56	25	, gg
olitoli bo	sn Llico	Inch 15	14	,	, 13 , a ,	/ # #j
. 1	Miles	11760 21°167 11236 2°128 20684 22°857	63092 11.949 53266 10.088 80110 15.172	11.949	14.392 2.199 15.172	13.830 15.452 23.885
Distanco	Feet	2 2	63092 53266 80110	63092 81389 120684	75991 11612 80110	73021 81585
	Log. feet	5.048285	4.799976	4.799976 4.910567 5.081650	5-17 g 4-880760 7-58 44 4-064895 4-903685	4.863445 4.911609 5.100764
Corrected	Plans Angle	33. 44. 33. 2	51 49 46 41 35 8 86 35 -6	28 50 24 38 28 51 112 40 45	65-17 9 -7-58-44	33 8 58 37 39 32
, .	, ,	·	, in the second	h.a.		.
Station		Baldgara, XXIV Ohammir, II Barkhera Ifill Bush	Stanan, I Dhamuir, II Digan	Baligara, XXIV Dhannár, II Digan	Shaman, I. Dhamnar, II. Shaman Hill Tree	Dudhála, IV Nigrun, III. Pirlia
lo.oX olganitT		g, Y	. 02	. .	63	55

Station Daligara XXXV oppertuins to the Karaeld Longifulinal Bories of the North Nege Quideilated. Notes -1. Names followed by Roman numerals are those of Principal Stations. St. 2. The ralue of the side is given in the same line with the opposite angle.

	poəq.r. poəq.r.	Inch I 1.4 7 1.4 7 ",	2 15 0 "	01 158	ω + ιο	# N #	2 15 3 7	7 15	2 52 4 7 7 13	6 10 4 2 2	0 15 9 7	8 15 6 "	* 60
	Miles	19.057 12.551 23.857	12.82 16.77 29.51	12.8 16.8 29.5	11.688	3.294 8.057 6.304	3.762 8.083 6.304	3.067	2.242	2.242 2.065 3.294	2.480 6.849 8.057	23.098 10.996 31.479	22.514
Distance	Feet .	66271 125964	67859 88543 155854	.67639 88784 155854	61710 33287 55888	17390 42543 33287	19861 42677 33287	16196 43430 33287	11837 31698 33287	11837 10904 17390	13095 36160 42543	121955 58060 166207	118876
	Log. feet	5.coz692 4.821322 5.100248	4.831606 4.947155 5.192718	4.948333 5.192718	4.522281 4.522281 4.747318	4.240304 4.628831 4.522281	4.208028 4.630197 4.522281	4.209399 4.637788 4.522281	4.073235 4.501032 4.522281	4.073235 4.037567 4.240304	4.558234 4.558234 4.628831	5.220649 5.220649	5.075093
Corrected Plane Auglo		52 37 39 31 33 39 95 48 42	4 11 56 5 28 56	4 15 53 5 36 6	83 27 59 32 24 21	22 33 39 110 11 0	26 50 59 103 57 10	19 6 57 118 34 45	20 48 13 72 0 32	42 8 29 38 10 28	16 45 47 52 47 20	33 20 44 15 10 14	45 16 34 38 8 15
		11.8,			h.s.	1).8.	11.8.	h.s.	Ъ.в.	h.s.	zi.		
i di	Station	Iohári, VI Nigrun, III Parnakheri	Deo Dongri, V Lohári, VI Parnaji Pagoda No. 1	Deo Dongri, V Lohári, VI Parnaji Pagoda No. 2	Deo Dongri, V Gurla, VIII Karai	Deo Dongri, V Kurai Mebidpur	Deo Dongri, V Karai Mehidpur Flag-staff	Deo Dongri, Y Karai Mehidpur Tomb	Deo Dongri, V Karai Dulet Templo	Mehidpur Karai Dulet Templo	Deo Dongri, V Mehidpur Karai Pagoda	Lohári, VI Kaula-ka-Máta, XI Pancher Hill Pagoda	Lohárí, VI Kaula-ka-Máta, XI Budapura
lo .oZ olgunirT		7.1	1. 21	7.3	7.7	73	7.0	11	7.8	7.9	80	81	83
dolite rd		Inch 15	T		;; <u> </u>	2.2	= =	2.5			2 2		14
	Miles	30.842 23.328 23.328	9.053 18.430 23.328	9.053 13.322 14.359	16.co2 23.328	18.529	8.626 18.719	7.058 23.389 23.857	23.525 6.685 23.857	23.525 16.013 18.719	24.775 19.405 18.719	24.775 3.596 23.857	19.057
Dietanco	Feet	1,200191 1,200191	47801 97312 123171	47801 70342 70342 75818	\$4485 52312 123171	97834 22154 113000	115119 45547 98834	37265 123494 125964	124211 35296 125964	12421 8454 9883	130810 102456 98834	130810 18986 125964	100622 89665 123171
	Log. feet	5.209251	4.626433 4.628166 5.080510	4.679433 4.847214 4.879770	4.926797 4.718597 5.090510	4.990489 4.345452 5.053079	2.ce1146 4.658458 4.058458	\$ 2001.5 \$ 100245 \$ 100245	5.094160 4.547723 5.100248	5.094160 4,927102 4,94160	5.010538 4.994999	5.116640 4.278434 5.100248	5.002692
Corrected	Plane Anglo Log. fee	83 13 34 5. 209251 47 42 47 5.031360 5.090510	21 9 33 4.679433 47 17 37 4.988166 111 32 50 5.090510	37 56 44 4 67973 64 48 29 4 4 879779	33 18 37 4°926797 19 52 42 4°718597 5°090510	42 33 6 4.990489 8 48 31 4.345452 5.053079	90 0 57 5.c61146 23 0 9 4.658458	77 8 42 4.571296 77 40 7 5.091645 77 50 7 5.100248	79 4 49 5.094160 16 12 5 4.547723 5.100248	001666.t 2 17 25 2.061606 8	81 2 23 5.116640 50 41 10 5.010538	100 38 50 5.116640 8 12 3 4.278434 5.100248	53 40 8 5.002692 45 52 47 4.952621 5.090510
Corrected	Log.	13 34	9 33 17 37 32 50	56 44 48 29 14 47	18 37 52 42	33 6 48 31	0 27	8 42	4 49	53 28 41 8	2 23 41 10	38 50 5 116640 12 3 4 2 7 8 4 3 4 5 100 2 4 8	52 47 4
	Log.	13 34	21 9 33 47 17 37 111 32 50	37 56 44 64 48 29 77 14 47	18 37 52 42	33 6 48 31	0 27	8 42	4 49	53 28 41 8	81 2 23 50 41 10	100 38 50 5'116640 8 12 3 4'278434 5'100248	53 40 8 45 52 47 4

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olilo ed	2001T	Inch I4	* * *	2 2 2	* * *	* * *	13 EF	Hr.	13, ×	P.3		E = .	* * * * * * * * * * * * * * * * * * * *
	Miles	8.547 12.384 6.997	14.434 12.616 25.300	14.604 4.192 12.616	9.803	4.552 7.939 4.192	\$26.160 18.407 27.314	6.001	25.639 24.233 27.314	25.639 11.082 18.407	22.235 17.941 11.082	17.201	11.082
Distanco	Feet	3 45130 65387 36942	76213 66615 133584	77107 22131 66615	51759 74869 61976	2,1036 41919 22131	154172 97189 144220	31684 76407 97189	135373 127951 144220	135373 58511 97189	117402 94726 58511	90819 75495 58511	13290 65458 58511
	Log. feet	4.854461 4.815493 4.567526	4.823572 4.823572 5.125756	4.887093 4.345008 4.823572	4.874305	4.380870 4.622414 4.345008	5.188005 4.987615 5.159024	4.883131	5.131533	5.131533 4.767241 4.987615	5.069677 4.976471 4.767241	4.958177.	4.123529
Corrected	Plane Angle	o / " 41 45 48 105 11 48 33 2 24	22 14 10 19 18 55 138 26 55	15 37 36 15 37 36 54 10 25	43 10 40 81 48 14 55 1 6	25'53 14 130 24 35 23 42 11	76 38 36 37 49 53 65 31 31	15 57 10	59 17 42 54 21 27	40 16	97.11.10	84 tg o	10 30 15
		80 ° ° °	11.8.	h.s.	ji si	h.s.	h.s.	h.s.	 13.8	h.s.	h.s.	h.a.	r r
	Station	Baloda Semlia Nagora	Indráwan, XIII Gumánpur, XVI Kapátal	Indráwan, XIII Kapátal Shergarh	Kaula-ka-Máta, XI Baloda Jalodia	Indráwan, XIII Shorgarh Jalodia	Uarnása, XII Singárchori, XV Reuti	Harnása, XII Reuti Nenod Hill Treo	Singárchori, XV Harnása, XII Deoguzária	Reuti Harnisa, XII Doogurāria	Reuti Deogurária Dewás Hill Tomplo	Reuti Doguraria Nagda Hill	Routi Decgurária Gurácia IIIII Ponk
g elg	.oV narrI	95	96	76	86	66	100	101	102	103	10.1	105	100
	osu posuli	Inch Iő "	2 2	2.2		2 2	. .	Z		2,2,2	2 2 2		/2 2 2 t
	Miles	2.632 23.136 21.548	2.632	15.387 21.016 21.686	15.387 8.246	6.260	9.267	13.759 23.465	72.468 20.048 16.648	12.328 11.738 16.648	12.328 8.680 12:468	6.997	8.547. 10.348 7.124
Distance	Foct	1389 12216 11377	13896 60128 60063	81241 110963 77543	81241 43541 87902	33052 39789 65794	48931 30204 65794	65833 72646 123893	65833 ro5852 87902	65090 61976 87902	65090 45831 65833	36942 85973 61976	45130 51638 37617
,	Log. feet	4.142898 5.086928 5.056042	4.779080	4.909773 5.045177 4.889543	4.638903 4.638903 4.943996	4.210204 4.299762 4.818184	4.689585	4.818446 4.861211 5.093046	4.818446 5.024697 4.943996	4.813515 4.792225 4.943996	4.661159 4.818446	4.567526 4.934363 4.792225	4.65446r 4.737498 4.575388
	Plane Angle	5 23 14 5 23 14 124 22 38	13 16 42	47 2 56 88 38 4	29 29 56	23 0 0	25 30 51	25 9 35 27 58 42 126 51 43	38 20 0 85 45 28 55 54 32	47 42 48 44 46 51 87 30 21	68 38 28 40 58 37 70 22 55	22.11.5 118.30.32 39.18.23	\$4 53 56 82 6 17 42 59 47
						II.	h.s.	m.	- #		W. A.		200
	Station	Deo Dangri, V Dhanorn, VII Jhar Hill Treo	Kanla-ka-Máta, XI Dhanora, VLI .Aar Hill Tree	Gurla, VIII Knreod, LX Borcha Hill Treo	Kaula-ka-Máta, XI Karsod, IX Bereha Hill Tree	Gùrla, VIII Jalálkhori, X Dhalmu	Guelā, VIII Jalilkheri, X Lupāra	Harnása, XII Karsod, IX Kwála	Kaula-ka-Máta, XI Karsod, IX Kwála	Kaula-ka-Mita, XI Karsod, IX Baloda	Kwila Karsod, IX Baloda	Kaula-ka-Máta, XI Baloda dmlia	Indráwan, XIII Somlia Vagora
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	Miles	26.669 10.680 34.033	26.669 17.085 31.231	6.997 28.867 26.616	6.997 29.919 29.513	33.412 10.669 27.024	14.637 18.530 10.669	26.662 13.235 27.024	4.780 23.958 28.614	28.718	25.023 7.892 7.892	5.753 13.485 7.892	21.633
Distance	Feet	140811 56390 179695	140811 90207 164897	36946 152416 140531	3694 15797 15583	176415 56331 142685	77281 97836 56331	140776 6981 142685	25236 126496 151079	151633 50047 142685	132281 41672 142685	30377 71198 41672	114219 50630 142685
	Log. feet	5.148635 4.751205 5.254535	5.148635 4.955240 5.217213	4.567568 5.183030 5.147771	4.567568 5.198577 5.192651	5.246535 4.750751 5.154379	4.888074 4.990498 4.750751	5.148530 4.844357 5.154379	4.402024 5.102077 5.179205	5.180792 4.699381 5.154379	5:121496 4:619841 5:154379	4.482546 4.852469 4.619841	5.057741
Corrected	Plane Angle	39 28 47	58 35 53 33 8 51	13 43 41	13 30 2 86 32 54	45 28 40	52 5 18 35 6 20	74 12 58	2 21 50	90 30 58 70 12 45	67 15 24 (16 53 23 95.51-13	, 0 6 v	18 52 38
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	Station	K emple No. 2	mple No. 2	K. ?eak	ľ V Peak	ė.	<u>'</u>	≥	H 본	, , , ,	<u> </u>		A.
i	ā	Ialálabad, XIX Ajnád, XXII Tasdin Hill Templo I	Argaon, XXI Ajnád, XXII Tasdin Hill Temple No.	Jalálabad, XIX Árgaon, XXI Sátpuda Hill Peak	Dhanvár, XXIV Árgaon, XXI Sátpuda Hill Peak	Dhanvár, XXIV Sirsála, XXVI Páldhi	Dhanvár, XXI ¹ Páldhi Mauvol	Dhanvár, XXIV Sirsála, XXVI Padmála	Valvádi, XXIII Dhanvár, XXIV Jalka Poak	Dhanrár, XXIV Sireála, XXVI Dohori	Dhanvár, XXIV Sirsála, XXVI Kokatnimbhora	Dhanvár, XXIV Kokatniúbbora Jámner Hill Peak	Dhanvár, XXIV Sirsila, XXVI Sámnör
វិល លវិត្យរ	oZ Trini	143	315	145	146	147	148	GFT	150	151	152	153	18.
	oosilT en	lieh Lő 7	77	÷ :	5 ±		2 2		, ± ć -	2.2	,= 5	(a,a, .	\$ 8
	Miles	26.878 15.384 40.701	11.784	2.064 2.064 11.784	160.07	42.100 42.100 31.608	14.627	12.934	2.842 23.241 23.470	11.301	24.048	26.680 31.095 20.874	26.680 17.091 31.231.
Distance	Feet	1419141 81229 514900	62219 79560 81229	58541 10897 62219	13+512 9800 211681	212461 222288 166890	77229 71760 145732	68291 78013 145732	15008 122713 123921	59672	131723	1 1036 1 1031 1 1031	12 140868 90243 164897
	Log. feet	5.152025 4.909712 5.332237	4.897950 4.897956 4.909712	4.767459 4.037307 4.793920	5.327279 3.991213 5.325681	5.327279	4.855882	1.834364 4:892170 5.163556	5.088889 5.088889 5.093144	4.775770	5.058408 5.058408 5.366290	5.215326	5'148812 4'955413 5:217213
Commeter	Plane Anglo	20 46 56	45 39 21 65-19 50	65,28 30	93 I4 45 2 38 22	64 20 37	12 27 23	4 44 30	6 57 18 81 54 50	25 58 18 24 47 41	20 39 27	57 50 54 80 40 -5	58.38 2 33.9 41
	•		e e	B.	Ţ,		,	,,	7. 7		., .	. , ,	
	uoi	1. Jan. 1. jan	II goda	goda	II Templo	I Temple	H	· H	, qu			olo No. 1	lo No. L
	Binlion	Báwangaz, XVIII Songarlı Peak Chakori.	Báwangaz, XVIII Chakori Abapuri IIII Pagoda	Chakeri Abapuri IIII Pagoda Anjar	Biwangaz, XVIII Mograba, XIV Ambahiyani Hill Templo	Gumánpine, XVI Magraba, XIV Ambálopini Hill Templé	Báwangaz, XVIII Bábikurar, XX Bori Ifill Peak	Bávangaz, XVIII Bábákuvar, XX Naktimáta Peak	Thikei, XVII Jalilahal, XIX Bijagarh Hill Fort	Bilbikuvar, XX Ajnid, XXII Varjiri IIII	Bábákuvar, XX Árgaon, XXI Khandra Hill	Bibálturan, XX Ajnáti, XXII Tasdin Hill Temple	Argdon, XXI Ajnid, XXIII Tasdin Hill Templo No. 1.
10.	o .o.V. p.juirT	- <u>=</u>		; E	101	. 23	138		133	130	9		A CHI.

elg 10			ı a	Distance						Corrected	Q	Distance		
o.oZ nrinT	Station	Plane Angle	Log. feet	Feet	Miles	post(1),	.oN Trint	Slation	-	Plane Angle	Log. feet	Feet	Miles	rso (L
155	Dhanxfr, XXIV Valvidi, XXIII Bámbrud Hill Pagoda	24 24 35 11 36 30	5.026020	51901 51698 151079	601.02 601.03	Inch 15	167	Laling Hill Templo Valvádi, XXIII Bahádurpur	h.8.	36 56 47 113 9 7	4.922241 5.003488 5.188100		15.835	Ineh 15 7
156	Sirsála, XXVI Valvádi, XXIII Bámbrud Hill Pagoda	47 20 50 46 8 55	5.026020 5.017472 5.158644	4 106175 104105 144094	601.02		168	Anakvádi, XXV Valvádi, XXIII Bahádurpur	ћ.в.	41 7 48	4.922241 5.074508 5.225784	83607 118716 168184	15:835 22.484 31.853	15
157	Dhaván, XXIV Valvádi, XXIII Mohári h.s.	33 .7 20 21 54 37	5.003201 4.837557 5.179205		19.079	2 2	169	Valvádi, XXIII Sútmála, XXVII Junyána Hill Peak		86 25 26 43 40 52	5.286453 5.126554 5.170884		36.628 25.347 28.071	15
158	Sirsála, XXVI Valvádi, XXIII Mohári h.s.	43 22 38 35 50 48	5.003201 4.933986 5.158644	27 100740 85899 144094	062.42	8 8	170	Anakvádi, XXV Sátmála, XXVII Junvána Hill Peak		39 56 59 6 33 32	5.286453 4.536599 5.339464	193398 34403 218506	36.628 6.516 41.384	2 2
159	Valvádi, XXIII Dhanvár, XXIV Mohári Hill Peak	29 30 40	4.989826 5.179205	68202 97684 151079	12.917 18.501 28.614		171	Sátmála, XXVII Valvádi, XXIII Arvi Poak		48 21 55 85 21 6	5.310458 5.310458 5.170884		29.027 38.710 28.071	= :
160	Anakvidi, XXV Valvidi, XXIII Laling Hill Templo	38 I 9 4 II I	5.188100 4.261615 5.225784		29.206 3.459 31.853	2.2	172	Annkvádi, XXV Valvádi, XXIII Arvi Peak		17 28 55 1 45 56	5.185439 4.196422 5.225784	153264 15719 168184	29.027 2.977 31.853	z z
161	Ajnád, XXII Valvádi, XXIII Laling Hill Templo	42 43 3 67 16 25	5.321525 5.329635	31 1542C6 209665 213616	29.206 39.709 40.458		841	Sátmála, XXVII Sirsála, XXVI Páchora	h.s.	36 44 23 71°27 41 71 47 56	4.968930 5.168956 5.169806	93096 147556 147845	17.632 27.946 28.001	: :1-
162	Laling Hill Temple Valvádi, XXIII Kankráj h.s.	51 14 58 99 10 4	4.887130 5.085710 5.188100	77113	14.605 23.072 29.206		174	Dhanvir, XXIV Sirsúla, XXVI Púchora	h.e.	40 37 19 53 7 18	4.968930 5.058348 5.154379	93096 114379 142685	17.632 21.663 27.024	15
163	Anakrádi, XXV Valvádi, XXIII Kankráj h.s.	55 25 59 97 31 51	4.887130 5.145191 5.225784	77113	14.605 26.458 31.853	15	175	Páchora Sirsála, XXVI Varod	h.s.	146 6 11	5.108724 4.604363 4.968930		24.327 7.616 17.632	2 ::
164	Laling Hill Templo Kankráj Dhár "	95 45 3 60 13 26	4.756947 5.145013 5.085710		10.822 26.447 23.072	2.2	176	Mohári Sirsúla, XXVI Varod	h.s.	95 16 20	5.108724 4.944145 4.933986	128447 87932 85899	24.327 16.654 16.269	2 2
165	Anakvádi, XXV Kankráj h.s. Dhár "	97 23 16 61 32 14	4.756947 5.197519 5-145191	57141 157586 139698	10.822 29.846 26.458	2 2	177	Páchora Varod Bámbrud	h.s.	41 17 40 115 10 10 23 32 10	4.822531 4.959709 4.604363	66456 91140 40213	12.286 17.261 7.616	
166	Anakvádi, XXV Laling Hill Templo Songír h.s.	7 6 30	4.987849 5.042317 4.261615	97241	18-417 20-878 3-459		178	Sátmála, XXVII Valvádi, XXIII Antár Hill Fort		41 5 13 16 56 34	5.060023 4.706837 5.170884	50914 148212	21.746 9.643 28.071	15

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	Miles	25.065 24.406 28.071	8 29.772 2 9.114 8 37.017	3.964 10.838 9.114	32.019 20.498 28.614	31.954 26.147 24.987	31.954 5.862 37.017	24.01 15.92 37.017	23.769 15.374 37.017	23.76 13.51 24.01	27.12	13.33	20.463 5.545 23.769
Distanco	Feet	132345 128861 148212	15719 4812 19544	20930 57223 48122	169063 108227 151079	168718 138055 131933	168718 30953 195448	126813 84083 195448	12550 8117 19544	125500 71380 126813	70319 37728 81177	70319 34178 84083	108043 29276 125500
	Log. feet	5.121708	5.196447 4.682345 5.291031	4.320770 4.757567 4.682345	5.228048 5.034336 5.179205	5.227162 5.140053 5.120354	5.227162 4.490699 5.291031	5.103165 4.924710 5.291031	5.098642 4.909433 5.291031	5.098642 4.853579 5.103165	4.847071	1.847071 4.533745 4.924710	5,033595 4,466511 5,098642
Corrected	Plane Anglo	56 32 47	32 50 27 9 33 22	20 41 30	79 30 23 39 0 35	77 18 51 52 58 0	27 54 26 4 55 33	27 22 14 17 44 53	23 46 20 15 6 50	72 33 27 32 51 43 74 34 50	59,56 17	28 27 29 10	47 49 13 11 35 1
!	·		h.s.	b.8.	h.s.			h.s.	h.8.	h.s.	h.s.	h.s.	
	g												
200	Biation	Valvádi, XXIII Sátmála, XXVII Koralla Hill	Sirsála, XXVI Rájur, XXIX Undangaon	Sirsála, XXVI Undangaon Vási Hill Peak	Valvádi, XXIII Dhanrár, XXIV Varad	Pophla, XXVIII Rájur, XXIX Jalki Hill Pagoda	Sireála, XXVI Itájur, XXIX Jalki Hill Pagoda	Sirsála, XXVI Rájur, XXIX Palsi	Sirsíla, XXVI Rájur, XXIX Sarola	Palsi Rájur, XXIX Sarola	Sarola Sirsála, XXVI Moda	Palsi Sireala, XXVI. Moda	Sarola Rájur, XXIX Sillöd
of olgu	.oV icirT	191	192	193	194	195	196	197	198	199	. 200	201	202
	роэц т Эви	Inch 15	:1-	*,53	:1-	72	15	15	- 12°	: :	15	:1-	.22 ×
	Miles	062.12 00.61 9†2.12	14.454 26.073 19.002	14.454	10.898 27.020 19.002	10.898 6.607 14.454	33.218 35.534 24.987	33.218	3.853 6.183 4.032	5.262 21.931 27.024	5.262 10.086 14.454	3.850 -7.502 4.032	23.648
Distanco	Feet	13 114821 100329 146941	7631 13766 10032	76316 58298 93096	57542 142663 100329	57542 34887 76316	175393 187618 131933	175393 21288 167913	20341 32647 21288	277	27784 53256 76316	20329 39612 21288	124861 157043 142685
	Log. feet	5.000023 5.001429 5.158644	4.882617 5.138820 5.001429	4.882617 4.765655 4.968930	4.759985 5.154312 5.001429	4.759985 4.542661 4.882617	5.273274	5.244012 4.328125 5.225085	4.308367 4.513843 4.328125	4.443802 5.063696 5.154379	4.443802 4.726372 4.882617	4.308124 4.597824 4.328125	5.096427 5.196018 5.154379
Corrected	Plano Anglo	52 23 29 43 48 20	101 31 51 45 34 8	.54 54 3 38 40 54	127 10 3 34 5 3	25 38 12 108 49 56	63 49 r	107 12 22	37 19 45 103 16 45	3.7 12 13.639	13 57 50 27 33 3	17 26 17	48 56 59 71 31 57
			n.8.	h.s.	n.s.	h.s.	h.s.	h.s.	h.B.	, , ,	h.s.	h.s.	, .
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	Station	Siraila, XXVI Valvādi, XXIII Antūr IIill Port	Antúr Hill Fort Sirsála, XXVI Sarangi	Páchora Sirsála, XXVI Savangi	Antúr IIill Fort Sirsála, XXVI Kulah	Savangi Sirsila, XXVI Kulah	Rájur, XXIX Pophla, XXVIII Glátumbri	Sirsála, XXVI Pophla, XXVIII Glátumbri	Sirsála, XXVI Ghátumbri Ausa IIIII Fort	Dhanrar, XXIV Sirsila, XXVI Jarandi Hill Pagoda	Savangi. Siradia, XXVI Jarandi IIIIl Pagoda	Sirsála, XXVI Ghátumbri Baitalrádi Fort	Dhantár, XXIV Sirsála, XXVI Jaola Hill Peak
013	, o.2. ganisT	17.9	180	181	182	183	181	185	150	187	183	189	190

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edite ed		Inch 7 15	15	7 :	* *	15	15	= =	2.2				7
	Miles	3.414	3.414 6.015 7.854	2.708 3.981 4.916	6.607 2.774 4.916	16.570 17.088 7.854	31.90z 10.109 24.987	24.833 5.089 24.987	210.12	13.000	13.749 7.917 21.012	9.546 11.607 21.012	3.536 8.380 9.546
Distance	Feet	18028 17556 35258	18028 31761 41470	14298 21021 25958	34884 14644 25958	87487 90225 41470	168444 53374 131933	131117 26870 131933	83345 36469 110941	68688 48147 110941	72593 41800 110941	50404 61285 110941	18670 44246 50404
I	Log. feet	4.255944 4.244437 4.547260	4.255944 4.501897 4.617729	4.155274 4.322651 4.414269	4.542624 4.165667 4.414269	4.941945 4.955328 4.617729	5.226456 4.727329 5.120354	5.117659 4.429265 5.120354	4.920881 4.561924 5.045093	4.836882 4.682567 5.045093	4.860892 4.621180 5.045093	4.702465 4.787357 5.045093	4.271138 4.645879 4.702465
Corrected	Plano Angle	0 1 " 7 52 0 7 39 35	24 9 38 46 8 40	33 23 0 53 59 40	115 36 35 22 14 40	72 51 9 80 12 55	125 12 2	82 24 29 11 43 13	34 12 50 14 14 35	21 57 28 15 11 41	18 41 34 10 38 5	6 0 54 7 19 12	21 30 35 60 20 20
		h.s.	ћ.в.	h.B.	h.s.	h.s.	a No. 1	1 No. 2				h.8.	h.s.
	, ,	Kanad Sátmála, XXVII Andaner Peak	Jamdi Sátmála, XXVII Andaner Peak	Jamdi Kanad Andaner Masjid	Jamdi Kanad Mundvádi Peak	Sátmála, XXVII Jandi Damangaon Hill Pagoda	Pophla, XXVIII Rájur, XXIX Dongargaon Hill Pagoda N	Pophla, XXVIII Rájur, XXIX Dongargaon Hill Pagoda No.	Pophla, XXVIII Yerúl, XXX Waragaon Hill Tomb	Pophla, XXVIII Yerúl, XXX Bondagaon Hill Tree	Pophla, XXVIII Yerúl, XXX Ganori Peak	Pophla, XXVIII Yerúl, XXX Golagaon	Yerúl, XXX Golagaon Guddana Hill Pagoda
	.oN mirT	215	216	217	218	219	220	221	222	223	224	225	226
jolite ed	en Theor	Inch 15	7 "	2.2	2.2		2 =	2 2	15	2.2	2 2	2 2	:.
	Miles	20.463 16.641 37.017	13.140 10.631 8.924	13.866 9.701 8.924	13.866 6.595 13.519	6.764 9.260 5.545	7.862 4.962 8.924	7.046 4.325 6.473	29.225 18.679 21.012	29.225 7.661 30.393	19.724 7.854 24.849	25.792 14.761 24.849	4.916 6.678 7.854
Distance	Feet	.34 108043 87863 195448	69380 56131 47121	73214 51223 47121	73214 34820 71380	35712 48892 29276	41511 26198 47121	37204 22834 34178	15430 98621 11094	5 154306 40448 160473	104140 41470 131205	136180 77939 131205	25958 35258 41470
	Log. feet	5.033595 4.943805 5.291031	4.841234 4.749204 4.673216	4.864594 4.709461 4.673216	4.864594 4.541828 4.853579	4.552817 4.689235 4.466511	4.618166 4.418261 4.673216	4.358588 4.358588 4.533745	5.188382 4.993992 5.045093	5.188382 4.606897 5.205401	5.017619 4.617729 5.117950	5.134112 4.891756 5.117950	4.414269 4.547260 4.617729
Corrected	Plane Anglo	0 1 " 4 20 33 3 31 49	83 57 o 53 33 55	96 8 16 44 4 35	79 0 51 27 49 54	46 27 25 97 5 10	61 21 20 33 37 55	78 43 5 37 0 20	94 39 II 39 34 21	74 o 16 14 35 41	41 58 55 15 26 52	76 35 rz 33 49 44	38 29 5 57 42 3
		zů.	h.s. B.	в. h.s.	h.s.	h.s.	h.s. 8.	h.8.	h.s.	h.8.	h.s.		ћ.8.
č	попрад	Sirsála, XXVI Rájur, XXIX, Sillőd	Palsi Sillöd ' Sindphal Hill Pagoda	Sillöd Palsi Undangaon Hill Tree	Sarola Palsi Undangaon Hill Treo	Sarola Sillöd Bhokardhan Tower	Palsi Sillöd Nirad Tower	Palsi Moda Upli Pagoda	Yerúl, XXX Pophia, XXVIII Rail	Sátmála, XXVII Pophla, XXVIII Rail	Sátmála, XXVII Yerúl, XXX Jamdi	Sátmála, XXVII Yerúl, XXX Deher Hill Temple	Sátmála, XXVII Jamdi Kanad
of 30	.oV TriaT	203	20.4	205	206	207	208	209	210	211	212	213	214

* Deduced base.

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etilot	ordT en	The Life	2 2	:73	::	* *	<u> </u>	13		15	14.	2 (2)	
	Miles	18.159 11.338- 24.987	10.782 5.064 11.338	15.434 7.295 18.159	15.434 25.418 29.412	7.161 31.778 24.987	7.196 21.196 18.159	21,162	961.4 7.460 7.196	6.966 9.956 7.460	2,369	18.157 24.992 11.338	961.4
Distance	Feet	59863 59863 131933	56929 26737 59863	385	81493 134207 155297	37809 167789 131933	37993 111917 95880	37993 145782 155297	2432 39389 37993	36783 52567 39389	15676 32494 39389		36905
	Log. feet	4.981727 4.777159 5.120354	4.755336 4.427117 4.777159	4.585637	5.127775 5.191164	5.224764 5.120354	4.579700 5.048898 4.981727	5.191161.5 5.163704 5.193704	3.385947 4.595374 4.579700	4.565643 4.720716 4.595374	4:511850 4:511850 4:595374	4.981690 5.120432	4.567084 4.4136co 4.5797co
Corrected	Plane Angle	41 40 56 24 31 54 113 47 10	70 42 35 26 18 50	56 52 59 23 19 8	31 38 29 59 45 41	\$ 37 15 159 3 9	ro5 r 44 55 49 56	14 2 29 68 35 11	123 33. 2 53 30. 0	44 20 18 87 12 30	22 41 43 53 6 20	41 39 5 113 49 50	67 39 50
		h.s.	h.s.	h.s.			h.s. 1 ,,	. h.s.	H h.s.	2 h.s.	2 h.s.	p.s.	1 h.s.
٠. ۽				Tomb	que	ooa	Ä,	No.	No.	No.	No. Dipmal	, , , <u>, , , , , , , , , , , , , , , , </u>	, X
		Pophla, XXVIII Rájur, XXIX Muramba	Pophla, XXVIII Muramba Kankura Hill Treo	Muramba Rijur, XXIX Nandkhed Hill T	Jámithed, XXXI Rájur, XXIX Nandkhed Hill Tomb	Pophla, XXVIII Rájur, XXIX Pallaskhed Hill Treo	Muramba Rájur, XXIX Málágaon	Jámkhed, XXXI Rújur, XXIX Málágnon	Rájur, XXIX Málágaon Málágaon	Ríjur, XXIX Málágaon Wadona Peak	Rijur, XXIX Málágaon Dongaou Hill Dij	Popbla, XXVIII Muramba Rájur IIII Tomple	Rajur, XXIX Malagaon Damangaon
30 ofga	No. Tria	230 1	240	241	F SFS	243 F	244	. 252 245 74	246 J	247 J	248	219	250 J
	en Doorft,	Inch 15	: :1>	15	2 2	*r-	뭐 : .	15	7. Z. T.	12:		7.15	温味
	Miles	33.430 8.412 38.898	31.500 10.653 38.898	31.523 10.579 38-898	31.523	15.209 33.508 27.861	15.209	3.140	3.140	32.347	28.541 8.286 32.377	210.12	18.159 18.317 29.412
Dietance	Foct	176508 44415 205384	166321 56247 205384	166441 55855 205384	145991 55356 147108		80303 32617 110941	16577 36868 50404	16577 26472 32617	170792 204968 164803	150696 43748 179949	197959 37979 110941	95880 95715 155297
	Log. feet	5.246765 4.647533 5.312566	5.312566 5.312566	5.221269 4.747062 5.312566	5.221260 4.743166 5.167637	5.247788	4.904734 4.513443 5.045093	4.219513	4.219513	5.232467 5.311685 5.216964	5.232866	\$.020621 4.569021 5.029621	t91161.5 \$24186.t £24186.t
Corrected	Plano Angle	44 33 25 10 10 8	40 3 36 12 34 16 127 22 8	39 54 23 12 25 57	19 4 52	97 48 55	16 56 19	29 23 0	30 21 43 53 38 31 95 59 46	53 41 36 75.15 55	55 42 13	74 20 14	36 4 41 36 26 33 107 28 46
			h.s.			, ћ.8.	, š.	h.8.	lı.s.		, , ,		n.S.
	Blation	Yerd, XXX Jámkhed, XXXI Godagaon Hill Peak	Xerál, XXX Jámkbed, XXXI Jatoda	Jámkhed, XXX Jánkhed, XXXI Jatoda Hill Treo	Pophla, XXVIII Jankhed, XXXI Jatoda IIIII Tree	Jánskhed, XXXI Pophla, XXVIII Rasulpur	Yerúl, XXX Pophla, XXVIII Rasulpur	Golngnon Yerul, XXX Röza	Rasulpur Yorul, XXX Röza	Limkhed, XXXI Dhaigaon, XXXIV Veril Hill Treo	Yerni, XXX Dhaignon, XXXIV Mitmita Peak	Pophla, XXVIII Yerdi, XXX Mahoji Peak	Jimkhed, XXXI Hijur, XXIX Muramba
30°	oZ. naivT	222	822	220	230	183	232	(왕)	135	335	336	237	238

					Distance			lo elg		2040000	Н	Distance		
Station	_		Corrected Plane Angle	Log. feet	Feet	Miles	bosilT bosu	.oV aniT	Station	Plane Angle	Log. feet	Feet	Miles	posuT posu
Rájur, XXIX Ahirmal, XXXII Chaoradongae		h.8.	42 44 28 II 18 27 125 57 5	5.222145 4.682897 5.298701		31.587 9.126 37.676	Inch 1:4 "	263	Kasaner Jámkhed, XXXI Pipalgaon Hill Tree	95 20 49 36 16 56	4.911117 4.685159 4.786599	81492 48435 61179	15.434 9.173 11.587	Inch 7 15
Jámkhed, XXXI Áhirmal, XXXII Chaoradongar		h.s.	79 33 26 39 16 52 61 9 42	5.030889	166780 107371 148558	31.587 20.335 28.136		797	Yerůl, XXX Dhaignon, XXXIV Satúra No. 1 h.s.	34 27 33 23 31 43	5.057180 4.905701 5.232866	114072 80482 170949	21.605 15.243 32.377	/ n n
Rájur, XXIX Júmkhed, XXXI Pan Chandra Hill Dipmal	Il Dipmal		46 15 14 22 45 37	5.079755 4.808543 5.191164	120159 64349 155297	22.757	15	265	Yerúl, XXX Dhaigaon, XXXIV Satúra No. 2 h.s.	35 6 53 22 36 25 122 16 42	5.065601 4.890562 5.232866	116306 77725 170949	22.028 14.721 32.377	2 2 2
Rájur, XXIX Jánkhed, XXXI Kadgaon Hill Pagoda	ო დე იმ ი		16 20 47 9 58 5	4.993860 4.782763 5.191164	98596 60641 155297	18.673 11.485 29.412		266	Yerúl, XXX Satára No. 2 h.s. Toka "	85 5 8 34 54 50	5.131305 4.890562	117608	22.274 25.625 14.721	
Jánkhed, XXXI Muramba Somtána Hill Dipmal	mal	л. 8.	18 57 21	4.508782 4.924815 4.985493	32269 84104 96715	6.112	-1:	267	Satára No. 2 h.s. Toka "	16 36 10 80 41 23	5.072669 4.532160 5.070438	118214 34053 117608	22.389 6.450 22.274	
Muramba Jánkhed, XXXI Kasancr		h.s. ,	34 19 32 82 37 12	4.786599 5.031789 4.985493		11.587 20.378 18.317	15	268	Yerúl, XXX Toka Shernapur ",	58 8 55 18 18 40 103 32 25	5.072669 4.640721 5.131305	118214 43724 135302	22.389 8.281 25.625	1.5
Dhaigaon, XXXIV Jámkhed, XXXI Kasaner		h.s.	10 6 51 18 7 8 151 46 1	4.786599 5.034795 5.216964	61179 108342 164803	20.519		269	Dhaignon, XXXIV Yordi, XXX Daulatabad Fort Flag-staff	51316	4.393466 5.195215 5.232866	24744 156753 170949	4.686 29.688 32.377	15
Kasaner Jánkhed, XXXI Jadgaon		h.s	55 I9 45 49 IO 22	4.893622 4.822785 4.786599	78275 66494 61179	14.825 12.594 11.587	15	270	Satára No. 2 h.s. Yerúl, XXX Daulatabad Fort Flag-staff	7 22 29 16 24 13	4.393466 4.735910 4.890562	24744 54439 77725	4.686 10.310 14.721	7
Muramba Júnkhed, XXXI Jadgaon		h.s.	52 53 25 27 17 27	4.893622 4.653248 4.985493	78275 45004 96715	14.825 8.523 18.317	15	271	Yerdi, XXX Shernapur Daulatabad Minaret	21 51 5 25 52 35	4.342291 4.411430 4.640721	21993 25789 43724	4.165 4.884 8.281	-4:
Jámkhed, XXXI Muramba Jaipur Hill Tree		 Гр. в.	18 28 45 67 32 48	4.487543 4.952300 4.985493	30729 89598 96715	5.820 16.969 18.317	-13	272	Satára No. 2 h.s. Shernapur Aurangabad Tomb	55 54 5 56 29 20	4.484270 4.487252 4.532160	30498 30708 34053	5.776 5.816 6.450	2 2
Jámkhed, XXXI Jadgaon Yeklerwar Hill Dipmal)ipmal	, ħ.8.	5 7 33 18 54 40	4.234743 4.794361 4.893622	17169 62282 78275	3.252 11.796 14.825	15	273	Yerúl, XXX Shernapur Gandali Hill Pagoda No. 1	16 23 38 151 39 40	4.775425 5.001214 4.640721	59625 100280 43724	11.293 18.992 8.281	15
Jatoda Jámkhed, XXXI Pipalgaon Hill Tree	166	h.s.	10 55 15	4.911117	81492 88155 166321	15.434 16.696 31.500	15	274	Dhaigaon, XXXIV Kasaner h.s. Varundi "	82 46 45 83 29 35	4.412916 5.034144 5.034795	25877 108179 108342	4.901 20.489 20.519	

26	G.				: KHANPI	 ISURA M	ERIDIO	nal se	RIES.	• • • • • • • • • • • • • • • • • • • •	* .**	•	1.45%
pa	Theod	Inch 7 15	٠ تة .	r.13	12 .	~ [2]	72.	. E4.	12.	· ·	· · · · · · · · · · · · · · · · · · ·	: E	12.
	Miles	20.361 17.329 12.357	20.361 20.243 9.613	22.303 18.432 12.357	22.303	18.190	18.190	18.874	18.874	10.289	7.527		
Distanco	Feat	1075 914 652	107506 106881 50755	117758 97323 65247	11775 11413 5075	96044	96044 83746 50755	833 507	99655 129773 96715	54328 41100 22853	39740 24892 22853	39404	32606
	Log. feet	5.031434 4.961410 4.814560	5.0231434 5.028901 4.705475	5.070992 4.988214 4.814560	5.057424 4.705475	4.816983 4.816983 4.814560	4.982469 4.922965 4.705475	4.998498 4.920147 4.705475	4.998498 5.113183 4.985493	4.735021 4.613844 4.358948	4.358948 4.358948	4.595545 4.516120 4.705475	4.395345 4.313295 4.8143595
Corrected	Planc Angle	84 51 7 57 57 28	76 59 32 75 37 16	90 37 24 55 43 55	81 22 55 73 23 43	94 26 11	87 32 20 60 35 35	92 55 56 56 56 41	49 36 58 82 42 59	113 11.55	36 25	50 54 52 40 16 35	27 41 23 22 35 47
	-	b.s.	h.s.	ľ,s.	h.s.	h.a.	ħ.s.	h.s.	h.8.	h.s.	n n	h.s.	h.e
ũ	Statton	Bori Jámkhed, XXXI Jálnn Pagoda	Ambad Jámkhed, XXXI Jálna Pagoda	Bori Jāmkhed, XXXI Jālna Hill Pagoda	Ambad . Jánkhed, XXXI Jálna Hill Pagoda	Bori Jánkhed, XXXI Raugaon Hill Pagoda	Ambad Jánkhed, XXXI Raugaon Hill Pagoda	Ambad Jámkhed, XXXI Vádagaon Hill Pagoda	Muramba Jámkhed, XXXI Vádagaon Hill Pagoda	Bort. Ambad Gola Pagoda	Bori Ambad Slivga Tower	Ambad Jémkhed, XXXI Pokri Tower	Bori Jámkhed, XXXI Pokri Tovce
10 013:	.o.K reirT	287	288	280	290	291	292	203	20.4	295	296	297	208
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esifol		14.456	14.837 " 18.225 " 4.901	8.548 " 12.035 ",	8.507	9.829 ", 12.700 ",	10.403 15 " 22.056 ", 31.213	10,403 7 18.978 15 18.317	11.5551	37.508 15 12.357 36.081 7	9.613 ", 4.328 15	9:673 33:893 36:081	12 251 8 251 4 3 281
	l boodT	456 880 901	4.837 8.225 4.901		8.507 1.742 4.901	1 = =	403 15 " 056 "	54928 10°403 7 100204 18°978 15 96715 18°317	64847 13.282 77 8190 11.551 77	198040 37.508 15 65247 12.357 190510 36.081 7	50755 9.613 ". 22853 4.328 15 65247 12.357 7) He	64683 12-251 ". 43616 8-251 ". 22853 4-328
Distance	Log. feet Feet Miles	14.456	1 14.837	8.548 545 12.035 377 4.901	35877 4.901 25877 4.901	9.829 ", 12.700 ",	10.403 15 " 22.056 ", 31.213	10,403 7 18.978 15 18.317	11.5551	37.508 15 12.357 36.081 7	9.613 ", 4.328 15	50755 94613 77 78952 33.893 15 90510 36.081 77	12 251 8 251 4 3 281
Distance	Log. feet Feet Miles	82684 76328 14°456 198624 99684 18°880 186846 25877 4°901	983989 78341 14.837 983302 96228 18.225 412916 25877 4.901	10 4.654483 45132 8.548 10 4.803082 63545 12.035 10 52877 4.901	8.507	826422 51895 9.829 ", 826422 67054 12.700 ", 412916 25877 4.901	739792 54928 10'403 15 22'056168 116458 22'056 ",	739792 55928 10.403 7 0000885 100204 18.978 15	32 4.811888 64847 12.282 7. 55 3.913308 8190 17.517 7.	296753 1980;0 37.508 15 814560 6547 12.357 279918 190510 36.081 7	59 4.705475 50755 9.613 ". 13 4.358948 22853 4.328 16	1475 50755 9:613 57738 178652 33:893 15	64683 12-251 ". 43616 8-251 ". 22853 4-328
Distance	feet Feet Miles	25 4.998624 96328 14.456 95 4.998624 99684 18.880 10 4.882684 96328 18.880	13 to 4.983302 98341 14.837 13 to 4.983302 96228 18.225 13 to 4.983302 96228 18.225	4.654483 45132 8.548 4.903082 63545 12.035 4.901	15 1.652426 44919 8.507 15 4.792361 61996 11.742 15 4.792361 25877 4.901	33 30 +775125 51895 9.829 ", 57 45 4.826422 67054 12.700 ", 1412916 25877 4.901	57 4.739792 54928 10.403 15 24 5.066168 116458 22.056 ", 5 5.216964 164803 31.213	53 4.739792 54928 10.403 7 56 5.000885 100204 18.978 15 4.985493 96715 18.977 15	3. (13.13.32 4.811888 64847 12.282 7. 1.551 7. 1.567 7. 1	55 48 5 296753 198040 37 508 15 4 814560 6547 12 357 51 45 5 279918 190510 36 081 7	4.705475 50755 9.613 ". 4.358948 22853 4.328 15	4.705475 50755 9.613 5.555 5.25738 178952 33.893 15	56 40 4.810793 64683 12.251 ". 29 25 4.639649 43616 8.261 ". 4.358948 22853 4.328
Distance	Log. feet Feet Miles	22 5 10 4.882684 76328 14.456 150 35 25 4.998624 99684 18.880	40 24 30 4.863388	35 42 0 4.654483 45132 8.548 124 45 10 4.803082 63545 12.035 4.901	38 56 45 4.592361 61996 11.742 11.942 17.92361 61996 17.742	h.a. =443330 +775125 51895 9.829 " " 1145745 +826422 67054 12.700 " 4.412916 25877 4.901	57 4.739792 54928 10.403 15 24 5.066168 116458 22.056 ", 5 5.216964 164803 31.213	32 19 53 4.739792 54928 10.403 7 77 19 56 5 000885 100204 18.978 15	113.13.32 4.811888 64847 12.282 7. 1.531 7. 1.53	86.55 48 5'296753 198040 37'508 15 4'814560 65247 12'357 3. 73 51 45 5'279918 190510 36'081 7	10 58 13 4.814560 65247 12.357 7	69 16 0 5.552738 179952 33.883 15 95 21 5 5.279918 190510 36.081 7.	151 56 40 4.810793 64683 12-551 ". 18 29 25 4.1639649 43616 8.261 ". 4.358948 22853 4.328

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dolito oʻ	Theo	Inch 2 7 0 ",	6 15	3 1 6	1 15	15 " 7	n +ss	3 7	15 33 "		٠ <u>٠</u>	3 15	308
	Miles	4.512 9.400 10.703	20.794 31.308	168.0	16°58 16°78 31°59	16.581 27.858 40.487	27.024 27.024 27.858	10.292 25.480 32.013	9.787	9.787	4.856. 22.036 20.420	4.856 5.653 10.292	25.35 10.53 32.01
Distance	Feet	23822 49633 56511	58532 109791 165307	27 58532 4707 56511	87548 88623 166810	30 87548 147091 213772	54344 142685 147091	54344 134536 169026	516 1215 1187	51675 107818 154118	256 1163 1078	25639 29846 54344	133888 55600 169026
н	Log. feet	4.376984 4.752136	4.767396 5.040565 5.218292	4.767396 3.672753 4.752136	4.942247	4.942247 5.167586 5.329950	4.735148 5.154380 5.167586	4.735148 5.128838 5.227954	4.713276 5.084788 5.074503	4.713276 5.032690 5.187854	4.408908 5.065772 5.032690	4.474884 4.735148	5.126743
Corrected	Plane Angle	24 52 10 61 11 20	7 53 37	4 14 10	18 38 36 18 52 51 142 28 33	18 24 34 32 2 43	74 39 29 83 47 36	43 3 26	24 48 8 80 40 53	10 12 45 21 42 41	103 7 39	12 34 28	43 3 1 16 28 5
		h.s.	Ъ.в.	љ.в. 1	h.s.	h.8.	h.s.	h.s.	. b.s	h.s.	11 8.	h.s. B.	
101	11017170	Sindkhed Rakshasbílian Sawargaon Pagoda	Jámkhed, XXXI Sindkhed Appagaon Pagoda	Rakshasbálan Sindkhed Appagaon Pagoda	Agargaon, XXIV Chincholi, XXIII Netjai	Dhaigaon, XXXIV Chincholi, XXIII Netjai	Notjai Dhaigaon, XXXIV Chincholi	Ágargaon, XXIV Dhaigaon, XXXIV Chincholi	Chincholi, XXIII Mathuri, XXXIII Tandoli	Dhaigaon, XXXIV Mathuri, XXXIII Tandoli	Tandoli Dhaigaon, XXXIV Pimpri	Chincholi Dhaigaon, XXXIV Pimpri	Dhaigaon, XXXIV Ágargaon, XXIV Chincholi Hill Dipmal
	.o.v. Trin	311	312	313	31.4	315	316	317	818	310	320	321	322
	poorT psu	Inch 7 15	7 15	2 2	7 15	:1-	2 2	= =	15	15	: :	2 2	٠
	Miles	5.982 6.952 12.357	5.982 5.949 9.613	4.957 31.251 27.861	4.957 20.829 18.317	2.467 10.307 12.357	4.127 3.915 4.328	8.404 8.162 4.328	8.945 11.077 10.077	25.324 28.510 36.081	12.293 31.308 36.081	14.887 30.968 36.081	10.703
Distance	Feet	31585 36705 65247	31585 31413 50755	26173 165005 147108	33 26173 109975 96715	13024 54423 65247	21791 20674 22853	44372 43093 22853	47229 58485 50755	133713 150534 190510	64907 165307 190510	78605 163512 190510	\$6511 87616 64907
	Log. feet	4.499476 4.564723 4.814560	4.499476 4.497110 4.705475	4.417855 5.217497 5.167637	4.417855 5.041293 4.985493	4.114732 4.735783 4.814560	4.338270 4.315417 4.358948	4.647113 4.634404 4.358948	4.674207 4.767043 4.705475	5.126174 5.177636 5.279918	4.812294 5.218292 5.279918	4.895449 5.213550 5.279918	4.752136
Corrected	Plane Angle	0 ' " 15 53 11 18 32 54	36 26 28	7 1 40	12 33 42 113 57 23	6 58 6 30 27 45	59 50 o	77 58 30 71 46 40	50 37 43 73 11 40	44 15 47 51 47 27	19 24 16 57 47 40	24 8 36 58 18 10	92 6 34 47 45 30
		h.s.	h.s.		h.s.	h.s.	h.s.	h.s.	h.s.		Ъ.8.		h.s.
į	Station	Bori Jímkhed, XXXI Sirádhŏn Tower	Ambad Jámkhed, XXXI Sirádhŏn Tower	Pophla, XXVIII Jámkhed, XXXI Nandi Hill Peak	Muramba Jámkhed, XXXI Nandi Hill Peak	Jámkhed, XXXI Bori Ambnd Hill Pagoda	Bori Ambad Párnor Towor	Bori Ambad Rui Pagoda	Jámkhed, XXXI Ambad Dundgaon Nosquo	Jámkhed, XXXI Mathuri, XXXIII Talváda Hill Pagoda	Jámkhed, XXXI Mathuri, XXXIII Sindikhed	Jámkhod, XXXI Mathuri, XXXIII Govrái Hill Pagoda	Mathuri, XXXIII Sindkhed Rakshasbáhan
30 o[31	.o.Z neirT	299	300	301	302	303	304	305	306	307	308	300	310

Norg.-Stations Chincholi XXIII and Agargaon XXIV apportain to the Bombay Longitudinal Series of the Southern Trigon.

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Miles F	4.596 5.661 2.902	36.c22 21.068 32.013	36.022	36.037 8.110 40.551	36.037 21.079 32.013	6.708 5.880 12.293	6.205	15.389 9.536 12.293		13.056 8.627 12.293	6.296	6.396
Feet	24267 29890 15320	190195 111240 169026	190195	190274 42822 214111	190274 111299 169026	35417 31046 64907	32760 37462 64907	\$1256 \$0350 64907	81256 160876 118714	68937 45551 64907	33243 60729 . 40538	33243
Log. feet	4.385019 4.475529 4.185272	5.279200 5.279200 5.27954	5.279200 4.632268 5.330639	5.279380 4.631663 5.330639	5.279380 5.046491 5.227954	4.549216 4.492011 4.812294		4.909858 4.702000 4.812294	5.206492 5.074503	4.838451 4.658498 4.812294	4.521706 4.783396 4.607864	4.941292
Plano Anglo	53 55 45 95 23 15	82 42 47 35 27 39	51 11 34 10 7 8	5r 16 10 10 6 41	82 44 34 35 28 6	13 17 0	20 53 54 24 4 25	88 43 29 38 16 44	6 39	74 56 55 39 39 0	30 52 7 110 24 4	6 12 43
	Ъ.в. "			es	63	h.s.	h.s.	f. f.		h.8.	is.ii	10.00
roinio.	Tandoli Ránigaon Chándgaon Tower	Dhaigaon, XXXIV Ágargaon, XXIV Adhori Hill Pagoda No. 1	Mathuri, XXXIII Agargaon, XXIV Adhori Hill Pagoda No.	Mathuri, XXXIII Ágargaon, XXIV Adhori Hill Pagoda No.	Dhaigaon, XXXIV Ágargaon, XXIV Adhori Hill Pagoda No.	Mathuri, XXXIII Sindkhed Pipla Hill Pagoda	Mathuri, XXXIII Sindkhed Kolegaon Hill Treo	Sindkhed Mathuri, XXXIII Khámkhed IIill Pagoda	Chincholi, XXIII Mathuri, XXXIII Khámkhed IIill Pagoda	Mathuri, XXXIII Sindkined Sherapur Hill Pagoda	Ránigaon Mathuri, XXXIII Bhálgaon Hill Pagoda	Chincholi, XXIII Mathuri, XXXIII Bhilgaon IIill Pagoda
,oN icitT	335	330	337	338	339	940	341	3.12	343	7 7 .8	315	3.16
	Inch 7	15	15	15	7	15	, "	* :	1 - ::		= =	<u> </u>
Miles	5.146 3.654 5.653	4.367 7.001 4.856	6.180 3.666 4.856	12.565 2.743 10.292	3.384	8.087 9.167 4.856	20.12 20.12 681.62	7.678	8.524 6.961 5.305	8.312 12.523 18.302	2.549	8.351 10.278 2.902
Feet	27172 19293 29846	23060 36964 25639	32633 19355 25639	66341 14483 54344	17868 18268 25639	42699 48400 25639		4053 12801 11871	45008 36753 15320	43887 66122 96636	. 8984 13459 15320	44095 54266 15320
Log. feet	4.434118	4.362850 4.567779 4.408908	4.513651 4.286793 4.408908	4.821784 4.160862 4.735148	4.252073 4.261693 4.408908	1.630413 4.684842 4.08908	4.607864 5.057605 5.187854	4.607864 5.107263 5.074503	4.653294 4.565295 4.185272	4.642337 4.820344 4.985140	3.953478 4.128998 4.185272	4.644389
Plane Angle	62 53 45	38 4 56 98 37 10	91 53 56 36 21 20	141 52 4	44 10 37	61 41 49 86 23 10	3 0 43 8 30 40	18 25 3 93 52 54	113 0 45 48 43 45	22 45 30 35 39 0 121 35 30	35 38 30 60 48 0	42 I 30
***************************************	II.8.	ti.	, tš	1.8.	E.	ei.	II.8,		h.s.	h.s. n	b.8.	. Fig.
Station	choli ri ogaon Tower	Dhaigaon, XXXIV Pimpri Sirasgaon Tower	Dhaigaon, XXXIV Pinpri Karegaon Tower	Dhaigaon, XXXIV Chincholi Scrátta Tower Treo	Dhaigaon, XXXIV Pimpri Nimbgaon Tower	Dhaigaon, XXXIV Pimpri Joharapur Tower	Dhaigaon, XXXIV Mathuci, XXXIII Rânigaou	Chíncholi, XXIII Mathuri, XXXIII Ránigaon	Tandoli Ránigaon Nimbgaon Pagoda	Notjai Tandoli Somtána	Tandoli Ranigaon Antarrali Pagoda	Tandoli Ranigaon Hatgaon Tower
	Chin	Dhaiga Pimpri Siraga	Dhaigac Pimpri Káregac	Chiring Series	D'E	를 발명	E E E	- 925 F	E E	333 Th	ENT.	Hat H
	Station Plano Anglo Log. feet Miles 2 2 2 2 Eest Niles 2 2 2 2 Eest Niles 2 2 2 2 Eest Feet Feet Feet Feet Feet Feet Feet F	Plano Anglo Plano Anglo Log. feet Reet Miles	Flano Angle Post feet Feet Miles	Figure Augle Foot Miles Foot Foot Miles Foot Miles Foot Foot Miles Foot Miles Foot Foot Miles Foot Foot Foot Foot Miles Foot Foot Foot Foot Miles Foot Foo	Flano Angle Plano Angle Log. feet Feet Miles E E E Miles E E E Miles E E E Miles E E E E Miles E E E E E Miles E E E E E E E E E	Flanc Augle Log. feet Feet Miles E E Feet Miles E E E E E E E E E	Piano Angie Log. feet Feet Miles Feet Feet Miles Feet Feet Miles Feet Miles Feet Miles Feet Feet Feet Feet Miles Feet Feet Feet Feet Miles Feet Feet Feet Feet Miles	Flame Angle Flame Angle Log. feet Test Miles Fig. F	Phino Angle Lag. Ret Ket Miles \$\frac{2}{3} \times \frac{2}{3} \times \frac{1}{3} \times \frac{1}{	Pinochagia Log. feet Feet Miles Feet Miles Feet Miles Feet Miles Miles Feet Miles Miles Feet Miles Miles Miles Feet Miles Mi	Prime Angle Prince Angle Prot	Pinna Angle Lag feet Start Miles Start Sta

	oodT eu	Inch 14	222	15
	Miles	97286 18.425 68591 12.991 118714 22.484	8 97286 18.425 146791 27.801 154118 29.189	88307 16.725 87295 16.533 166810 31.593
Distance	Feet		8 97286 146791 154118	88307 87295 166810
	Log. feet	55 1 59 4.988050 35 17 38 4.836265 89 40 23 5.074503	4.988050 5.166701 5.187854	18 18 56 4.945994 18 5 54 4.940988 5.222223
Corrected	Plane Angle	0 1 " 55 I 59 35 I 7 38 89 40 23	37 37 35 4 '988050 67 5 56 5 166701 75 16 29 5 187854	18 18 56 18 5 54
		h.s.	ћ.8,	
10,100	Torrior .	Chincholi, XXIII Mathuri, XXXIII Tarkha	Dhaigaon, XXXIV Mathuri, XXXIII Tarkha	Chincholi, XXIII Ágargaon, XXIV Netjai Hill
jo elga	.oV .sirT	350	351	352
lolito	oodT esu	Inch 15 7	15	
	Miles	3.828 4.430 7.678	20.444 6.850 22.484	8.733 4.323 7.678
Distanco	Feet	20212 23389 40538	107942 20°444 36169 6°850 118714 22°484	46112 22824 40538
	Log. feet	0 32 4 305619 0 32 4 305619 19 30 4 369018 4 607864	6 35 5 ° 033191 32 40 4 ° 558335 5 ° 074503	49 27 4.663813 39 40 4.358395 4.607864
Corrected	Plano Anglo	0 1 11 20 032 23 19 30	64 6 35 17 32 40	88 49 27 29 39 40
	,	ћ.в.		Ъ.8.
,	Station	Mathuri, XXXIII Ránigaon Párgaon Tower	Mathuri, XXXIII Chincholi, XXIII Kbaryándi Hill Peak	Mathuri, XXXIII Ránigaon Hukarda Pagoda
ofg:	.oV mirT	275	3.48	678

Norn.-Stations Chincholi XXIII and Ágargaon XXIV appertain to the Bombay Longitudinal Series of the Southern Trigon.

December, 1892.

J. ECCLES, In charge of Computing Office.

KHANPISURA MERIDIONAL SERIES.

AZIMUTHS OF SURROUNDING STATIONS AND POINTS AT PRINCIPAL, PRINCIPAL-AUXILIARY AND SECONDARY STATIONS.

The following table contains, in the first column, the name of each Principal, Principal-Auxiliary, or Secondary Station, at which azimuths of surrounding Points have been measured; immediately followed by those azimuths. The second column contains the number of the triangle which gives the distance between the Station and the Point.

Name of Station with Azimuths	of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Ágargaon, XXIV Chincholi Hill Dipmal Chincholi Dhaigaon, XXXIV Adhori Hill Pagoda No. 1 Adhori Hill Pagoda No. 2 Mathuri, XXXIII Netjai Netjai Hill Chincholi, XXIII	h.s. 208 0 19 h.s. 208 27 54 224 28 23 77 259 56 30 270 3 10 74 284 53 43 285 26 25 303 32 19 36	336 339 . 46 314 352	Ambad h.s. Mathuri, XXXIII Dundgaon Mosque Jámkhed, XXXI Sirádhön Towor Pokri Towor Pórner Tower Párner Tower Gola Pagoda Jálna Pagoda Jálna Hill Pagoda Shivga Tower Raugaon Hill Pagoda Raugaon Hill Pagoda Raugaon Hill Pagoda	285 306 284 300 297 301 295 288 290 296 296
Áhirmal, XXXII Mathuri, XXXIII Jámkhed, XXXI Chnoradongar Rájur, XXIX	55 39 41 98 107 19 6 82 h.s. 146 35 59 157 54 25 66	251	Vádagaon Hill Pagoda 221. 31. 27 Kálágaou Pagoda 230. 4. 19 Bori h.s. 248. 33. 44 Rui Pagoda 320. 20. 24 Ambáh h.s. Singárchori, XV 48. 36. 3 Mhow Church 8. 92. 39. 20	293 286 284 305
Ajnád, XXII Laling IIII Temple Anakvádi, XXV Varjári Hill Bábákuvar, XX Jalálabad, XIX Tasdin Hill Temple No. 1 Tasdin Hill Temple No. 2 Ārgaon, XXI Dhanvár, XXIV Valvádi, XXIII	29 32 0 31 41 42 21 132 2 54 156 50 34 95 222 46 25 98 237 30 40 237 31 30 270 40 21 23 309 15 32 56 346 48 57 00	161 31 139 27 27 141 143 28 32 30	Harnása, XII 130 25 31 Anakvádi, XXV Songir h.s. 196 0 25 Ajnád, XXII 211,34 12 76 Dhár 227 7 29 Laling Hill Temple 237 13 0 Bahádurpur 247 38 22 Kankráj 248 11 59 Valvádi, XXIII 275 14 9 36 Junvána Hill Peak 277 55 50	166 34 165 160 163 34 170

Note.—Stations Chincholi XXIII and Agargeon XXIV appertain to the Bombay Longitudical Series.

Name of Station with Azimuths of a	urro	anding l	Points		No. of Triangle giving Distance	Name of Station with Azimuths	of surrou	nding	Poi	nts	No. of Triangle giving Distance
Anakvádi, XXV—(Contd.)] Arvi Peak Sátmála, XXVII		292 4 317 5	3 4	16	172 35	Bargar h.s. Dhamnár, II Nigrun, III Lohári, VI		o 197 246 317	7	49 16	68 68 69
Anjar h.s. Abapuri Hill Pagoda Chakeri	8.	0 3 255 5	9 43		133 133	Báwangaz, XVIII Bori Hill Peak Gumánpur, XVI Vatli	h.s.	181	16 56	22.77	136 22 120
Árgaon, XXI Valvádi, XXIII Ajnád, XXII Khandra Hill Bábákuvar, XX Tasdin Hill Temple No. 2 Tasdin Hill Temple No. 1 Jalálabad, XIX Sátpuda Hill Peak Dhanvár, XXIV		90 5 98 4 116 3 149 3 162 3 264	2 53 3 19. 6 48 8 57 5 19.	78 78	30 28 140 29 144 142 28 145 31	Mograba, XIV Songarh Peak Chakeri Thikri, XVII Abapuri Hill Pagoda Jalálabad, XIX Ambáhpani Hill Temple Bábákuvar, XX Naktimáta Peak	в.	228 234 255 266 301 301 321	53 40 51 19 22 15	38.57 5 1 42.71 22 44.22 24 29.07	122 126 131 23 132 24 134 25 137
Bábákuvar, XX Varjári Hill Bori Hill Peak Naktimáta Peak Báwangaz, XVIII Thikri, XVII Jalálabad, XIX Tasdin Hill Temple No. 1 Argaon, XXI Khandra Hill Ajuád, XXII		160 1 166 2 171 5 227 3 259 2 278 5	25 44 50 50° 32 28° 28 47° 56 53 59 54°	29 50 05	139 136 137 25 26 25 141 29 140 27	Bori h.s. Mathuri, XXXIII Ambad Ambad Hill Pagoda Jámkhed, XXXI Sirádhôn Tower Párner Tower Pokri Tower Shivga Tower Gola Pagoda Jálna Pagoda Jálna Hill Pagoda Raugaon Hill Pagoda Kálágaon Pagoda	h.s.	68 80 110 126 128 138 181 195 201 205 220	50 24 38 11 46 48 34 23 31	59 13 58 9 59 20 24 54 5 22 9	283 284 303 283 299 304 298 296 295 287 289 291 286
Bahádurpur h.s. Anakvádi, XXV Laling Hill Temple Valvádi, XXIII			15 12 37 54 28 47		168 167 167	Rui Pagoda Búda, XXI Bálágara, XXIV Sítamau, I			14	49.77 31.33	305
Bálágara, XXIV Barkhera Hill Bush Búda, XXI Sítamau, I Digau Dhamnár, II	h.s.	248 1 292 299 3	3 49 10 32 1 43 37 52 28 15	09	49 1 3 51 1	Dhamnár, II Budapura h.s. Lohári, VI Kaula-ka-Máta, XI			46 53	23.46	82 82 82
Baloda s. Semlia Jalodia Kaula-ka-Máta, XI Karsod, IX Kwála Nagora	s. h,s, s.	59 5	6 38 39 33	٠	93 98 91 91 92 95	Chakeri s. Abapuri Hill Pagoda Báwangaz, XVIII Anjar Songarh Peak	h.s.	75	25 45 53 15	15 55	132 131 133 131
Bámbrud h.s. Varod Páchora	h.s.	219 1 242 4	4 39 6 49		177 177	Chaoradongar h.s. Jámkhed, XXXI Rájur, XXIX Áhirmal, XXXII		27 200 326	40 33 30	29	252 251 251 251

Name of Station with Azi	muths of sur	rounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of su	rrounding Points	Trinngle giving
			ig T			Trim
Chincholi, XXIII		'o 1 11		Dhaigaon, XXXIV—(Contd. Agargaon, XXIV Pimpri Chincholi Hill Dipmal Chincholi h. Sirasgaon Tower Karegaon Tower Yerúl, XXX Yerúl Hill Tree Daulatahad Foot Elagastaff	1. 10 1 W.	100
Agargaon, XXIV		123 40 12.16	47	Agargaon, XXIV	44 35 13.84	.4(
Netjai Hill	,	141 59 8	352	Pimpri	B. 75 4 12	320
Netjai Tarkha		. 142 33 4	314	Chincholi Hill Dipmal	87 38 15	32
Dhaigaon, XXXIV	,,	164 19 28 174 35 46.60	350 48	Sirasanan Towar	8, 67 36 40	310
Tandoli	"	20.00.20	318	Kárcgaon Tower	113' 9 8	32
Ránigaon	"		330	Yerúl, XXX	173 3 3.58	4
Kharvándi Hill Peak		201 48 47	318	Yorul Hill Tree	173 11 19	23
Mathuri, XXXIII		219 21 27.27	47		100 0 37	26
Bhálgaon Hill Pagoda Khámkhed Hill Pagoda		225 34 10 248 28 6	343	Mitmita Peak Satára No. 2 , Satára No. 1 , Vorundi	186 55 40	23 26
Annual Carrier Lagour		240 20 0	020	Satára No. 1 ,	195 39' 29' . 196 34 47	20
			}	Varundi	224 36 43	27
Chincholi h.s.			}	Sevátta Tower Tree	229 30 44	32
		28 31 34	317	Varundi Sovátta Tower Tree Parundi Hill Pagoda Kasaner Jámkhed, XXXI	237 39 17 ;	28
Ghiregaon Tower		215 28 30	323	Kasaner	238 20 23	20
Sevátta Tower Tree Dhaigaon, XXXIV		28 31 34 215 28 30 259 50 40 267 35 30 278 22 15 351 23 6	326			
Pimpri		207 35 30	316	Adhori Hill Pagoda No. 2 Adhori Hill Pagoda No. 1	321 50 40	3:
Netjai	h.s	. 351 23 6	316	Adhori Hill Pagoda No. 1	321 52 27	3:
-		<i></i>		Ranigaou ,	, 324 44 31	3:
			1	Tandoli Chinebeli XXIII	331 56 33	31
amangaon s.			1	Uninchon, AAIII	354 34 37'31	85
Rájur, XXIX	74T - 1 1	204 24 10	250	auruna '',	359.21 23	1.00
Målágaon	T/O, T 11.8	276 25 50	250			
				Dhalmu h.s.		
Deo Dongri, V			1	Gurla, VIII Jalálkheri, X	107 16 2 338 19 31	1 8
Dhanora, VII		56 50 22.80	9	Jalálkheri, X	338 19 31). S
Jhar Hill Tree		62 13 37	83	,		1
Parnaji Pagoda No. 2		104 19 35	73	Thomas II	7	1:7
Parnaji Pagoda No. 1 Parnakheri	l, s	104 23 32 . 107 0 13	72 70	Dhamnár, II Lohári, VI	9 28 11 57	;
Lohári, VI	11,1	108 35 28 39	8	Lohári, VI Bargar h. Bhátkheri Hill Treo	9 20 11 57 B. 17 53 4	1.0
Nigrun, III		160 40 21.11	Ğ	Bhatkheri Hill Tree	21 44 9	1.
Kanthária Hill Tree		180 33 3.	62	Pingrála Hill Pagoda	35 51 8	1.0
Pátan Dharakpur Hill Treo	,,	181 49 54	60	Kachner Hill Tree	52 1 18	7.0
Dudbála, IV		208 22 48 209 14 30°go	59 6	Biliogra XXIV	145 10 48	4
Meludpur Flag-staff		244 40 12	76	Búda, XXI	177 46 45 02	}
Mehidpur	£	. 248 57 32	75	Digau "	187 1 44	· - E
Dulet Temple		250 42 58	78	Sitaman, I	. '228 36 51.70	· .
Mehidpur Tomb Karai Pagoda		252 24 14	77 80	Niorun III	230 35 30	, 5
Karai	h.s	265 43 19 . 271 31 11	74	Bargar Bhátkheri Hill Treo Pingrála Hill Pagoda Kachner Hill Treo Barkhera Hill Bush Bálágara, XXIV Báda, XXI Digau Sítamau, I Sítamau Hill Treo Nigrun, III	. 290 30 40-79.	
Gurla, VIII		354 59 9.98	10		t, s = 1, 5 = 1	15
			1	Dhanora, VII		ς.,
Doggranskaja I. a				Kaula-ka-Máta, XI	28 43 19 99	1
Deogurária h.s. Singárehori, XV			102	Jhar Hill Treo Lohári, VI	112 21: 0	. 8
Harnása, XII	,`•	42 52 31	102	Deo Dongri, V	236 43 37 71	
Indore Payoda		123 56 36	107.	Gurla, VIII	266 8 24 59	J
Renti - V	h	1. 148 15 57	103	Karsod, IX	315 1 41 93	ī.
Dewis Hill Temple		201 20 42	101			. '
Nagda Hill Guraria Hill Peak	' :	204 4 32' 264 22 47	105 106	Dhanvar, XXIV		1.
The state of the s	1.4	· · · · · · · · · · · · · · · · · · ·	100.	Jarandi Hill Pagoda	8 8 59	
			} ·	Sirsála, XXVI	11 16 10.85	18
Dhaigaon, XXXIV			[4,]	Varad h.s.	30 55 30	19
Netjni	h	*/ .	315	Mohari "	36 48 45	157
Nimbgaon Tower	1 .	13 72 23.' -: . 30 53 35,	328	Mohári Hill Peak Bambrud Hill Pagoda	40 25 25 45 31 30	.159 -155
WITH TONCE		* 150 TO 155.		a water the party of the contract of the contr		. 1417

Nore.—Stations Chincholi XXIII and Agargaon XXIV appertain to the Bombay Longitudinal Series.

Stations Buds XXI and Biligara XXIV appertain to the Karachi Longitudinal Series.

Name of Station with Azim	uths of surrou	nding Points	No. of Triangle giving Distance	Name of Station with Azimuths	of surrou	anding Points	No. of Triangle giving Distance
Dhanvár, XXIV—(C Páchora Sámner Valvádi, XXIII Jalka Peak Padmála Páldhi Ajnád, XXII Árgaon, XXI	ontd.) h.s. "	51 53 30 58 8 50 69 56 4 78 81 51 59 85 29 9 129 26 36 129 27 35 65 170 45 30 91	174 154 31 150 149 147 32 31	Gumánpur, XVI Ambáhpani Hill Temple Báwangaz, XVIII Indráwan, XIII Kapátal Dhutni Peak Lálgarh Hill Pagoda Mograba, XIV	h.s.	0 17 59 1 56 52 19 230 39 0 30 249 57 55 291 24 1 293 36 22 295 57 21 87	135 22 21 96 123 121 21
Manvel Sátpuda Hill Peak Dohori Jámner Hill Peak Kekatnimbhora Jaola Hill Peak	h.s.	184 15 33	148 146 151 153 152 190	Gurla, VIII Karsod, IX Bercha Hill Tree Dhanora, VII Deo Dongri, V Karai Dhalmu Jalálkheri, X	h.s.	287 13 22 310 13 21.71	11 85 10 10 74 87 14
Laling Hill Temple Anakvádi, XXV Kankráj	h.s.	45 55 53 47 14 41 345 42 27	164 165 164	Lupára Harnása, XII	27	354 28 27	125
Digau h.s. Dhamnár, II Bálágara, XXIV Sítamau, I		7 2 18 119 43 3 280 27 12	50 51 50	Nálchha Hill Dargah Mograba, XIV Dhár Hill Pagoda No. 1 Indráwan, XIII Kwála Karsod, IX Jalálkheri, X Reuti	s. h,s.	19 18 38 27 42 35 17 52 13 41 93 42 39 67 135 16 5 160 25 39 51 199 44 26 97 266 47 25	18 118 17 89 15 15
Dohori h.s. Sirsúla, XXVI Dhanvár, XXIV		30 35 33 100 48 18	151 151	Nenod Hill Tree Deogurária Rála Mandíl Hill Peak Machla Hill Peak Machla Hill Templo	n,s.	282 44 35 289 4 34 292 58 57 302 42 27 304 32 31	101 102 108 109 111
Dudhála, IV Deo Dongri, V Nigrun, III Tarauli Párlia Sítamau, I Gualed Hill Tree	h.s.	29 20 24 24 76 24 59 44 107 18 3 109 33 57 114 23 4 08 147 7 43	5 57 53 5 5 5	Ambáh Singárchori, XV Indráwan, XIII Kapátal Gumánpur, XVI Shergarh Jalodia	h.s. s. h.s.	9 .0 22	96 21 97 99
Ghátumbri h.s. Pophla, XXVIII Sirsála, XXVI Ausa Hill Fort Baitalvádi Fort Rájur, XXIX		12 38 28 78 46 38 •182 3 23 223 3 3 330 11 5	184 185 186 189 184	Kaula-ka-Máta, XI Semlia Karsod, IX Nagora Harnása, XII Mograba, XIV		177 39 15 00 210 31 28 217 19 2 10 265 25 24 273 34 2 85 343 36 26 99	16 94 16 94 17 18
Golagaon, h.s. Yerül, XXX Röza Guddana Hill Pagoda Pophla, XXVIII	h.s.	70 56 21 83 41 4 131 16 41 264 16 27	225 233 226 225	Jadgaon h.s. Kasaner Muramba Yeklerwar Hill Dipmal Jámkhed, XXXI	h.s.	11 10 36 222 11 6 303 5 34 322 0 14	258 259 261 258
Gosainbaira h.s. Thíkri, XVII Singárchori, XV		44 26 18 209 22 19	130 130	Jalálabad, XIX Tasdin Hill Temple No. 2 Ajnád, XXII Bábákuvar, XX		3 25 33 42 54 20·12 79 39 33·91	143 27 25

Name of Station with Azimuths of	surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	Trianglo giving Distance
Jalálabad, XIX—(Contd.) Bijagarh Hill Fort Báwangaz, XVIII Thíkri, XVII Sátpuda Hill Peak Argaon, XXI	99 55 29 121 34 57 95 181 50 19 33 328 38 54 342 22 34 98	138 24 24 145 28	Vádagaon Hill Pagoda 252 3 31 2 Pokri Tower 268 16 37 2 Sirádhön Tower 272 20 30 2 Nandi Hill Peak 283 17 54 3 Ahirmal, XXXII 287 10 48 55	291 293 297 299 301 42 288
Jalálkheri, X Harnása, XII Karsod, IX	19 47 56.92 75 56 21.10 hs. 104 46 3 130 16 54.13 158 20 23	15 14 88 14 87		303 281 307 309 308 306
Kaula-ka-Mata XI	8. 8 18 34 184 53 50 3239 54 56 344 36 23	99 98 98 99	Jamkhed, XXXI Pipalgaon Hill Tree 325 38 7	228 228 262
Jamdi h.s. Mundvádi Peak Sátmála, XXVII Andaner Peak Andaner Masjid Kanad Damangaon Hill Pagoda Yerúl, XXX	159 41 31 217 36 3 241 45 41 241 55 6 11.8. 275 18 6 297 48 58 340 10 16	218 212 216 217 214 219 212	Mundrádi Peak 117 34 20 Andaner Masjid 149 19 20 Andaner Peak 171 16 32 Sátmála, XXVII 179 8 32 Kankráj h.s. Anakrádi, XXV 68 20 4 Laling Hill Temple 69 58 17 Dhár h.s. 165 43 20	214 218 217 215 214 163 162 161 162
Kasauer	6 18 33 17 49 11 69 68 36 11 85 h.s. 86 43 20 92 0 36 122 15 33 99 122 17 48 123 0 16 127 3 2 132 25 42 134 41 31 134 49 50 147 10 38 150 51 47 153 46 23 14 169 20 32 173 46 44 188 17 53 199 56 52	312 43 44 250 280 41 235 262 231 227 228 258 261 260 39 238 242 255 242 255 252	Kapatal h.s. 70 2 50 Shergarh 5. 192 52 9 Indrawan, XIII 208 29 45 Karai h.s. Gurla, VIII 27 25 53 Deo Dongri, V 91 33 33 Dulet Temple 163 34 5 Mehidpur Flag-staff 195 30 43 Mehidpur Tomb 210 8 18 Karsod, IX Kwála B. 8 21 28 Indrawan, XIII 37 24 48 90	96 97 96 74 74 77 77 77
Robillagad Hill Peak Rájur, XXIX Chnoradongar Kadgaon Hill Pagoda Málagaon No. 1 Pan Chandra Hill Dipmal Jálna Pagoda Jálna Hill Pagoda	205 25 12 55 ,, 207 37 23 215 23 18	252 252 254 215 253 287 289	Baloda " 49 20 5. Kaula-ka-Máta, XI 94 6 56 28 Bercha Hill Tree 123 36 52 Dhanora, VII 135 500 11 Gurla, VIII 212 14 56 50 Jalálkheri, X 255 49 55 00 Harnása, XII 340 22 46 12	16 91 13 85 11 11 14

Name of Station with Azimuths	of Surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of s	urrounding Points	No. of Triangle giving Distance
Kasaner h.s. Dhaigaon, XXXIV Gedaida Dipmal Dhánura Pagoda Bhir Kingaon Pagoda Parola Idgah	58 25 46 96 39 1 100 48 1 102 15 46 105 30 31 119 7 21	257 279 276 276 278 277 275	Lohári, VI—(Contd.) Parnaji Pagoda No. 1 Parnaji Pagoda No. 2 Dhanora, VII Kaula-ka-Máta, XI	293 53 51 294 1 1 334 42 14 23 351 41 36 72	72 73 9 12
Walauj Pagoda Varundi Pipalgaon Hill Tree Jadgaon Muramba Rohillagad Hill Peak Jámkhed, XXXI	h.s. 141 12 31 171 18 56 ,, 191 9 52 ,, 203 36 29 259 59 50 266 39 45	274 263 258 256 282 256	Lupára h.s. Gurla, VIII Jalálkheri, X	174 28 39 284 42 43	88 88
Kaula-ka-Máta, XI Jalodia Budapura Pancher Hill Pagoda Lohári, VI Jhar Hill Tree Bercha Hill Tree	h.s. 4 54 15 " 133 35 4 156 33 5 171 43 18 72 195 24 36 207 16 12	84 86	Málágaon No. 1 h.s. Jámkhed, XXXI Muramba Damangaon Rájur, XXIX Málágaon No. 2	39 33 12 h.s. 81 5 36 s. 96 28 2 136 55 32 h.s. 260 28 34	245 244 250 244 246
Dhanora, VII Karsod, IX Kwála Baloda Semlia Indráwan, XIII	208 41 18*15 274 0 47*40 8. 312 20 47 321 43 35 343 54 40 357 38 55*30	90 91 93	Málágaon No. 2 h.s. Málágaon No. 1 l Rájur, XXIX Dongaon Hill Dipmal Wadona Peak	h.s. 80 28 43 133 58 43 187 5 3 221 11 13	246 246 248 247
Kekatnimbhora h.s. Sirsála, XXVI Dhanvár, XXIV Jámner Hill Peak	28 II 44 124 2 57 286 12 2	152 152 153	Manvel s. Dhanvár, XXIV Páldhi	1 32 5 h.s. 36 38 25	148 148
Kulah h.s. Sirsála, XXVI Antúr Hill Fort Savangi	22 27 36 56 32 39 h.s. 131 17 32	182 182 183	Mathuri, XXXIII Bhálgaon Hill Pagoda Chincholi, XXIII Hukarda Pagoda Tarkha Agargaon, XXIV	22 54 34 39 25 43.64 44 29 11 h.s. 74 43 22 90 15 24.58	345 47 349 350 46
Kwála s. Baloda Kaula-ka-Máta, XI Karsod, IX Harnása, XII	8. 119 42 20 132 26 16 188 20 48 315 12 31	92 90 89 89	Kharvándi Hill Peak Párgaon Tower Tandoli Ránigaon Adhori Hill Pagoda No. 1 Adhori Hill Pagoda No. 2 Dhaigaon, XXXIV	103 32 19 113 18 6 ,, 120 6 37 ,, 133 18 38 141 26 59 141 31 35 141 49 17 62	348 347 318 329 337 338 45
Lohári, VI Pancher Hill Pagoda Budapura Bargar Bhátkheri Hill Tree Bhátkheri Hill Tree Chamnár, III Nigrun, III Deo Dongri, V Parnakheri	h.s. 25 2 21 h.s. 36 58 11 n 137 17 20 158 51 21 160 16 3 180 38 20 189 26 51 11 237 56 10 00 288 24 54 74 n 290 33 49	7	Jámkhed, XXXI Ambad Rakshasbáhan Bori Ahirmal, XXXII Talváda Hill Pagoda Sindkhed Gevrái Hill Pagoda Pipla Hill Pagoda Kolegaon Hill Tree Khámkhed Hill Pagoda Shorapur Hill Pagoda	197 45 49 38 213 8 44 8. 215 25 33 h.s. 216 58 16 235 28 8 10 249 33 16 255 33 29 256 3 59 268 50 29 276 27 23 293 50 13 330 30 24	43 285 310 283 43 307 308 309 340 341 342 344

Name of Station with Azimu	ths of surrou	nding Points	No. of Triangle giving Distance	Name of Station with Azimuth	ne of surro	unding Points	No, of Trianglo giving Distance
Mehidpur s. Karai Pagoda Karai Dulet Templo Deo Dongri, V	h.s.	16 13 2 21 45 1 63 53 30 69 0 22	80 75 79 75	Nagora s. Indráwan, XIII Semlia Baloda	j. 11	85 29 12 128 28 59 161 31 23	94 94 95
Mhow Church s. Singárchori, XV Machla Hill Peak Ambáh Dhajára Hill Peak	h.s.	28 25 20 230 48 33 272 37 16 338 53 0	113 114 113 115	Netjai h.s. Ágargaon, XXIV Chincholi Dhaigaon, XXXIV Somtána Tandoli Chincholi, XXIII	. · · · · · · · · · · · · · · · · · · ·	104 58 36 171 24 25 192 57 20 217 18 14 240 3 44 322 30 3	314 316 315 332 332 314
Moda h.s. Palsi Upli Pagoda Sirsála, XXVI Sarola	h.s.	46 41 8 83 41 28 148 10 18 240 33 54	201 209 200 200	Nigrun, III Parnakheri Lohári, VI Bargar Bhátkheri Hill Treo Bhátkheri Hill Pagoda	h.s.	74 15 56 75 12 33	70 7 68 66 65
Mograba, XIV Ambáhpani Hill Temple Báwangaz, XVIII Vatli Gumánpur, XVI Lálgarh Hill Pagoda Indráwan, XIII Dhutni Peak Harnása, XII Asakhori Hill Tree Machla Hill Peak Nálehha Hill Dargah	h.s.	45 32 49 48 11 11 63 111 3 34 116 7 33 26 117 39 49 163 39 37 09 182 15 35 207 37 13 03 234 43 5 243 25 12 249 6 54	134 222 119 21 121 18 123 18 117 110	Pingrála Hill Pagoda Dhamnár, II Sítamau, I Párlia Tarauli Gualed Hill Tree Dudhála, IV Dharakpur Hill Treo Pátan Kanthária Hill Treo Deo Dongri, V	27 22	93 56 55 116 57 4 33 164 3 19 59 218 36 35 228 31 20 233 27 56 256 16 6 69 257 23 51 293 19 49 307 18 48 340 37 25;36	61 4 4 53 57 55 59 60 62 6
Jánapáv Hill Pagoda Singarchori, XV Jánnia Hill Peak Thíkri, XVII		256 44 29 264 22 2.41 300 52 48 346 21 49.56	116 19 128 20	Páchora h.s. Sátmála, XXVII Bámbrud Varod Dhanyár, XXIV	h.s.	104 9 30 231 47 56	178 177 175 174
Mohári h.s. Varod Valvádi, XXIII Dhanvár, XXIV Sirsála, XXVI	h.s.	86 17 53 91 48 7 216 46 10 351 1 33	176 157 157 158	Savangi Sirsála, XXVI Padmála h.s. Dhanyár, XXIV Sirsála, XXVI	"	263 9 16 318 3 19 265 24 47 342 39 47	181 173 149 149
Muramba h.s. Parundi Hill Pagoda Kasaner Jadgaon Jaipur Hill Tree Kankura Hill Tree Pophla, XXVIII	h.s.	21 39 10 23 38 58 42 12 51 56 52 14 101 44 40 128 3 30	281 256 259 260 240 239	Sirsála, XXVI		216 35 30 309 23 52 354 52 32	148 147 147
Naudkhed Hill Tomb Rájur, XXIX Rájur Hill Temple Málágaon Somtána Hill Dipmal Vádagaon Hill Pagoda Naudi Hill Peak Jámkhed, XXXI		184 57 41 241 50 40 241 53 20 260 59 .0 291 28 31 299 42 28 336 45 44 349 19 26	241 238 219 214 255 294 802 238	Palsi h.s. Upli Pagoda Sindphal Hill Pagoda Sirsila, XXVI Undangaon Hill Tree Moda Sarola	h.s.	147 56 32 166 14 21 171 37 14 206 6 46 226 39 37 233 56 40	209 204 197 205 201 199

Norn.-Stations Chinchell XXIII and Agargaen XXIV appertain to the Bombay Longitudinal Series.

Name of Station with Azimuths of	surro	ounding Poin	its	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Palsi h.s.—(<i>Contd.</i>) Sillöd Rájur, XXIX Nirud Tower	s.	250 II 2 306 30 311 32 4	7	204 197 208	Rail h.s. 0 / // // // // // // // // // // // //	211 210 210
Párlia h.s. Nigrun, III Sítamau, I Dudhála, IV		38 39 5 118 58 2 289 28 2	9	53 · 54 53	Rújur, XXIX Kadgaon Hill Pagoda 9 8 23 Chaoradongar h.s. 20 34 28 Damangaon s. 24 24 49 Jámkhed, XXXI 25 29 10 23 Muramba h.s. 61 55 43	254 251 250 39 238
Parnakheri h.s. Lohári, VI Nigrun, III Deo Dongri, V		110 38 1 206 26 5 286 54	8	71 70 70	Nandkhed Hill Tomb 85 14 51 Pophla, XXVIII 86 27 37 50 Dongargaon Hill Pagoda No. 2 98 10 51 Dongargaon Hill Pagoda No. 1 101 28 0 Palsi h.s. 126 36 17 Jalki Hill Pagoda 139 25 37 Sirsála, XXVI 144 21 10 24 Sillőd 8. 147 52 59	241 38 221 220 197 195 38 202
Pátan h.s. Deo Dongri, V Nigrun, III Tarauli	h.e.	1 50 113 22 5 190 37 4	9	60 60 61	Ghátumbri h.s. 150 16 39 Undangaon " 153 54 32 Sarola " 159 28 0 Pallaskhed Hill Tree 245 30 47 Wadona Peak 269 36 43 Dongaon Hill Dipmal 291 15 18 Málágaon No. 2 " 313 57 1	184 192 198 243 247 248 246
Pimpri s. Chincholi Ghiregaon Tower Sirasgaon Tower Káregaon Tower Dhaigaon, XXXIV Nimbgaon Tower	h.s.	98 23 5 137 36 1 156 25 3 218 41 2 255 2 4 300 29	1 36 36 46	321 323 324 325 320 327	Málágaon No. 1 ,, 316 53 59 Ahirmal, XXXII 337 49 59 66 Pan Chandra Hill Dipmal 339 13 56 Rakshasbáhan s.	244 42 253
Tandoli Joharapur Tower	27	319 31 3 341 25 5	35	320 328	Mathuri, XXXIII 35 28 28 Appagaon Pagoda 101. 0 17 Sawargaon Pagoda 286 31 38 Sindkhed h.s. 347 42 58	310 313 311 310
Pophla, XXVIII Maholi Peak Kankura Hill Tree Rasulpur Jatoda Hill Tree Yerúl, XXX Golagaon Ganori Peak Bondagaon Hill Tree Waragaon Hill Tree Waragaon Hill Tomb Rail Sátmála, XXVII Dongargaon Hill Pagoda No. 1 Dongargaon Hill Pagoda No. 2 Sirsála, XXVI Jalki Hill Pagoda Ghátumbri Belladad Mill Pagoda	h.s.	3 58 5 18 43 1 71 31 2 74 18 5 78 19 6 97 0 4 100 16 4 112 32 117 53 3 132 29 1 141 7 4 183 55 6 193 36	55 66 51 66 60 2 33 87 42 55 40 2 33 87	237 240 231 230 40 225 224 223 222 210 37 220 221 87 195	Ránigaon h.s. Chincholi, XXIII 20 59 0 Tandoli h.s. 82 54 31 Nimbgaon Pagoda 131 38 16 Antarvali Pagoda 143 42 31 Dhaigaon, XXXIV 144 48 20 Chándgaon Tower 178 17 46 Hatgaon Tower 207 26 1 Mathuri, XXXIII 313 16 57 Párgaon Tower 336 36 27 Hukarda Pagoda 342 56 37 Bhálgaon Hill Pagoda 344 9 4	330 331 333 329 335 334 329 347 349 345
Pallaskhed Hill Treo Rájur, XXIX Rájur Hill Templo Muramba Nandi Hill Peak Jámkhed, XXXI	"	261 42 2 266 19 4 266 21 3 308 0 4 326 40 5 333 42 3	29 13°94 35 40	243 38 249 239 301 89	Rasulpur h.s. Yerúl, XXX Röza Pophla, XXVIII Jámkhed, XXXI Rosulpur h.s. 95 10 58 h.s. 125 32 41 251 26 53 306 54 37-	232 234 231 231

[·] Nore.—Station Chincholi XXIII appertains to the Bombay Longitudinal Series.

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Name of Station with Azimuths	of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuthe of surrounding Points	Trianglo giving
Reuti h.s. Singárchori, XV Nenod Hill Treo Harnása, XH Dowás Hill Temple Nagda Hill Gurária Hill Peak Deogurária Indore Pagoda	21 22 36 45 23 17 86 54 7 231 2 41 243 54 51 317 43 36 h.s. 328 13 51 351 29 6	100 101 100 104 105 106 103 107	Savangi h.s. Antúr Hill Fort Páchora Kulah Jarandi Hill Pagoda Sirsála, XXVI Semlia Indráwan, XIII Antúr Hill Fort 42 21 55 83 12 50 311 15 55 342 49 57 356 47 47	180 181 183
Rŏza h.s. Yerúl, XXX Golagaon Rasulpur	h.s. 263 38 52 n 305 31 23	233 233 234	Raula-ka-Máta, XI	93 93 94 97
Sámner h.s. Dhanvár, XXIV Sirsála, XXVI	238 6 9 352 20 52	154 154	Jalodia , 188 18 19 Indráwan, XIII 318 42 54	99 97
Sarola h.s. Sillöd Palsi Moda Sirsála, XXVI Undangaon Hill Treo Rájur, XXIX Bhokardhan Tower	8. 27 14 33 h.s. 54 0 10 ,, 60 35 53 120 32 10 133 1 1 339 25 20 340 47 8	202 199 200 198 206 198 207	Shernapur h.s. 36 15 21 Yerûl, XXX 139 47 46 Daulatabad Minaret 105 40 21 Aurangabad Tomb 259 4 38 Gandali Hill Pagoda No. 1 291 27 26 Satára No. 2 , 315 33 58 Sillöd s.	267 268 271 272 278 267
Satára No. 1 h.s. Dhaigaon, XXXIV Yerúl, XXX	16 36 43 138 37 27	261 261	Nirud Tower 36 36 8 Palsi h.s. 70 14 3 Sindphal Hill Pagoda 123 47 58 Sirsála, XXVI 139 57 9 Undangaon Hill Tree 166 22 19	208 201 201 203 203 205 202
Satára No. 2 h.s. Dhaigaon, XXXIV Toka Shernapur Yerúl, XXX Daulatabad Fort Flag-stafi Aurangabad Tomb	h.s. 52 52 55 35 35 22 137 58 3 145 20 32 191 29 27	265 266 267 265 270 272	Bhokardhan Tower 304 18 55 Rájur, XXIX 327 49 31	207 202 841 341 810
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Valvádi, XXIII Páchora Antúr Hill Fort Koralla Hill Sirsila, XXVI Pophla, XXVIII Damangaon Hill Pagoda Andaner Peak Yerül, XXX Kanad	209 46 48 229 21 27 242 35 55 246 31 10 79 312 22 4 67 324 46 26 351 28 55 355 38 3978	173 178 191 96 37 219 215	Gosninbaira h.s. 29 27 3 Thikri, XVII 31 42 23 76 Jámnia Hill Peak 67 57 27 Songarh Peak 73. 43 31 Mograba, XIV 84 30 8 96 Nálchha Hill Dargah 89 56 53 Vatli 96 56 56 Lálgarh Hill Pagoda 99 38 38 Dhár Hill Pagoda No. 1 117 13 31	130 20 129 127 19 124 119 122 118

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Name of Station with Azimuths of	surro	unding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points Name of Station with Azimuths of surrounding Points One of the property
Valvádi, XXIII—(Contd.) Bahádurpur Kankráj Ajnád, XXII Argaon, XXI Jalka Peak Dhanvár, XXIV Bámbrud Hill Pagoda Mohári Hill Peak Mohári Sirsála, XXVI Koralla Hill Varad Antúr Hill Fort	h.s. ,,	136 32 23 150 50 34 166 52 1 21 209 27 53 73 247 25 23 249 47 13 48 261 23 44 269 54 11 271 41 51 307 32 38 54 311 44 46 329 17 36 351 20 59	167 162 30 30 150 31 155 159 157 33 191 194 178	Vatli h.s. 0 / n 120 Báwangaz, XVIII 18 14 6 120 119 Singárchori, XV 276 42 10 119 Mograba, XIV 290 56 54 119 Yerúl, XXX Toka h.s. 17 54 59 266 Deher Hill Temple 141 49 32 213 Jamdi ", 160 12 24 212 Rail ", 163 33 31 210 Sátmála, XXVII 175 39 15 79 40
Varad h.s. Valvádi, XXIII Dhanvár, XXIV Varod h.s. Bámbrud Mohári Páchora Sirsála, XXVI	h.s. ,,	149 21 1 210 50 3 39 17 15 266 12 25 284 7 5 307 57 35	194 194 177 176 175 175	Röza
Varundi h.s. Dhaigaon, XXXIV Gedaida Dipmal Bhir Kingaon Pagoda Parola Idgah Dhánura Pagoda Walauj Pagoda Kasaner	h.s.	44 41 9 76 9 19 81 0 59 85 56 44 88 25 14 111 46 59 321 11 34	274 279 278 277 276 275 274	Mitmita Peak 297 19 37 236 Daulatabad Minaret 297 54 59 271 Daulatabad Fort Flag-staff 301 30 44 269 Jámkhed, XXXI 302 5 16 32 21 Gandali Hill Pagoda No. 1 303 22 26 273 Satára No. 2 317 54 57 265 Satára No. 1 318 34 17 261 Shernapur 319 46 4 268 Dhaigaon, XXXIV 353 1 50 33 44

December, 1892.

In charge of Computing Office.

KHANPISURA MERIDIONAL SERIES.

CO-ORDINATES AND DESCRIPTIONS OF ALL STATIONS AND POINTS.

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		District	Description	Latitude North	East of Greenwich	of Station Height of	' ·
				1	Greenwich	Structure	
	1	-		0 1 11	11 6	feet	
hirmal Hill Mosquo		Nizam's	Large mesque on a conspicuous and isolated hill on	19 33 16.1	76' 6.40"4		1.64
	1	Territory	which is the principal station of the same name. 1845.	1,6			54.5
				1. 100	1.7	-6	, in
jnád, XXII	•••	Khándesh	Vide page 8_G,	21 18 49 40	75 5 0.92	0.7	27
	}],			
mbad Hill Pagoda		Nizam's	On a conspicuous hill S.E. of the town of that name,	19 36 20 7	75 50 18 6	[]	800
Ambhar h. pag.		Territory	about 4 miles 8. of Lalvádi village, and 3 miles N. by W. of Daurgaon. 1845.				() ;
	1		Tr, or Danigavar 2020.			1.375,0	
	{			1 1 1 1 1 1		1 6	700
mbad h.s Kasarwari Stn.	***	13	On a conspicuous and isolated hill about 2 miles S.W. of the town of the same name. 1845.	19 35 19 34	75 48 50 41	***	284
	1				1		1.5
mbáh Hill Pagoda		Jaora State	On a small isolated hillock immediately S.W. of the vil-				
H. Pag. Ambaw		שונום מיוטונ	lage of that name, about 2 miles S.E. of Harnaoda on the	(.*	74.57 31 5	`· :" ·	- "
	{		road from Partábgarh to Malhárgarh, i of a mile N.W. by N. of Sájanpura, and 11 miles S. of Hemri village:		1,000	14 3	
	į		Westorn Malwa (Málwa) Agency. 1849.			1,12,1	1 15
mbáh h.s		Indore State	On a small conical hill about 12 miles N.E. of the vil-	22 22 22 01	75 52 22 16	[2387]	111
	•	Indoto State	lage of that name on the high road from Mhow (Mau)	, , ,	75 53 32 16	123073	1
	- 1		to Khandwa, 24 miles S.W. of Datoda, and the same distance S.E. of Harsola large village: Indore (Indor)			133	1
	1		Political Agency. 1847.		1300	12.5	
mbáhpani Hill Temple		Rarwáni State	On a high conical hill, about 11 miles N.W. of the vil-	21 58 7:5	74 54 47.7		18
		Dat water Ottale	lage of that name close to the road from Barwani to	3	74 34 47 *	/	.186
	- 1		Pansemal, and 22 miles N. by E. of Kadwalia village on the Goi river: pargana Pati. Deputy Bheel Agency.		"	;	13
	ı		1847.	٠, ٠	, .		
nakvádi, XXV		Khándesh	Tide page 8_a.	20 47 2.38	74 44 0.52	2243.74	. 31
•			<i>g.</i>			3.2	
ndanor Masjid				(* , '			21
manner muslia	•••	Nizam's Territory	Tower. Near the large village of that name, about 2; miles N.W. of Kanad town. 1846.	20 10 20 4	75 8 38 10	***	
					ki j .		: .
indaner Peak			About 2 miles N.E. of the large village of Andancr on	20 17 17	75 10 18	•••	21
Hewarkhair Pk.		-,	the road from Kanad to Challegron, and the same dis- tance N. of the former town. 1846.			4 3 4 4 4	21
	,	,	COURT AT ON STATES COURT				1:2
Indri Hill Pagoda			AT ALL MY DOTT OF MAN AND AN AND AND AND AND AND AND AND AN	20.44		2.50	
murr rem rugons	***	. 97	About 21 miles S.S.W. of the village so called, and 5 miles N.W. of Noigaon on the road from Aurangabad	20 14 10	75 31 X3	****	"
	. 1		to Ajania. 1845.				
	:] , {		, , ,	130	, , , ,	13.5
Injar h.s.	`•••	Barwáni State	On a hill pagoda S. of Anjartown: Deputy Bheel Agency. 1847.	22. 2 15.6	75 5 46 3	[728]	13
Anjer H. Pag.	• •		AUTO 1			i de la composición dela composición de la composición de la composición de la composición dela composición de la composición dela composición dela composición dela composición de la composición dela c	
Antarvali Pagoda	•		The same ways as an arms are a second				
American Language - ace		Ahmednagar	miles E. by S. of Varur on the read to Manur. 44	19 16 22 2	75 25 43 5	***	33
-,		, , ,	miles S.W. by W. of the large village of Bodhegaon, and 11 miles N. of Kanigaon: sub-division Shergaon.			-7 .W	15
	,	,	1845.				
	^ 1.	· · · · · .	The state of the s		1-12-5-1-1		- "
Antur Hill Fort		Nizara's	White tower at the N. end of the hill fort. 1840.	20 25 42 6	75 16 35 9	.,, '. ,	. 178

Name of Station or Point	District	Description	Latitade North	Longitude East of Greenwich	Height of Station Height of Structure	No. of Triangle
Appagaon Pagoda	Nizam's Territory	Spire of the large pagoda at the village of the same name on the left bank of the Godávari river, about 13 miles W. of Pipalgaon on the road from Gevrái town, and 1 mile S.S.E. of Ballagaon. 1845.	0 1 "	0 / " 75 39 49°2	feet 	312 313
Argaon, XXI	Khándesh	Vide pago 8	21 18 27 70	75 34 4°92	3129	28, 29
Arvi Peak	17	Of a conspicuous, conical hill about ½ a mile E. of the high road from Malegaon to Dhulia, and 3½ miles S. of Laling on the above named road: taluka Dhulia. 1846.	20 46 4	74 46 42	[2108]	171 172
Ásakheri Hill Tree Sawgarh H.	Amjhera State	Small tree in the centre of the conspicuous and isolated hill, about a mile N.W. of Asakheri village, the same distance N. of Silote, 2‡ miles S. by E. of Sägar town, and 4 miles S.W. of Akolia close to the high road from Mhow to Rutlam (Ratlam): Bheel Agency. 1847.		75 39 4	[2096]	117
Aurangabad Tomb	Nizam's Territory	Large dome of Begam bibi-ka makbara on the right bank of the Dudhna river, and close N.W. of the town of Aurangabad. 1845.		75 21 43 9	•••	272
Ausa Hill Fort	. ,,	Centre of building in the hill fort. 1846	20 33 58.8	75 37 23.6	•••	186 ,
Azimpur s	. Ujjain State	On some high ground, about \(\frac{1}{2} \) a mile S.E. by S. of the village so called, 3 miles N.V. by W. of the town of Ujjain. The cartroad from Ujjain to Unol passes within a mile N.E. of the station: Western Malwa Agency. 1848.		75 46 3	•••	•••
Bábákuvar, XX	. Khándesh	Vide page 7—G	21 35 33 54	74 57 21 60	2658	25, 26
Bahádurpur h.s	. 13	On a hill, about 13 miles W. of the large village so called on the left bank of the Bori river, and 64 miles W.N.W. of the town of Párola on the high road from Dhulia to Erandol: táluka Amalner. 1846.	1	75 3 27 66	[907]	167 168
Baitalvádi Fort Wari Fort S. Tower	Nizam's Territory	Southern tower of the fort. 1846	20 33 4.6	75 39 42 0		189
Bálágara, XXIV°	. Mandsaur State	Vide pago 4G	24 10 21 90	75 0 15.84	1804	1
Baloda s	Dhár State	This station was originally fixed by the secondary triangulation of the Bhopal (Bhopal) and Malwa Topographical Survey, and is about 2 miles N.W. of the village of Baloda, and 2½ miles N.E. of Gadgára on the high read from Rutham to Indore: Bheel Agency. When visited in 1883, the station was found to consist of a platform of mud and stones, 2 feet in height, having a mark-stone in its upper surface. 1882-83.		75 19 24 22	1753	91, 92

^{*} This station apportains to the Karáchi Longitudinal Sories.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station No. of Height of Triangle Structure
Búmbrud Hill Pagod a <i>Bambrool II. Pag</i> .	Khándesh	On the southern point of a small, isolated hill about \(\frac{1}{4}\) a mile N.E. of the village of this name, and \(4\)2 miles E.N.E. of Maheji Railway Station of the G.I.P. Line: taluka Pachora. 1846.	I	75 32 O·8	feet [1016] 155 156
Bámbrud h.s	,,	On a hill, about 2½ miles W.S.W. of the village so called, and close S.E. of Taikvadi on the read from Chalisgaon Railway Station to Bhadgaon town; sub-division Chalisgaon. 1846.		75 8 27 89	
Bargar h.s IFurgarh h. tree and stn.	Jaora State	On some high ground, about a mile S.E. by E. of the village of Bagakheri, and 1½ miles N.N.W. of Bargar village on the road from Piplanda to Jaora, and 4½ miles W.S.W. of the latter: Western Malwa Agency. 1848.		75 5 57 53	68,69
Barkhera Hill Bush Gooraría II. Bush	. "	At the N.W. corner of a small flat-topped hill, about \(\frac{1}{2} \) of a mile E. of the village of Barkhern, \(\frac{1}{2} \) of a mile S.W. of Dangloda village, and \(\frac{1}{2} \) miles W. of Gogarpura village: Western Malwa Agency. 1847-18.	24 8 31	75 O 7	49
Báwangaz, XVIII	BarwániStat	Tide page 7—a	21 59 23 20	74 53 41 99	2112 22
Borcha Hill Tree Mahiswara II. Tree	Dhár Stato	On the eastern end of a high, isolated hill, about ? of a mile S.W. by S. of the village of Bercha, I mile N. of Dikwa, and b? miles N.W. by N. of Runija Station on the Sindhia-Neemuch Section of the B.B. and C.I. Railway: Bheel Agency. 1848.	1	75 16 7	85,86
Bhálgaon Hill Pagoda	Ahmedanga			75 ² 9 32 °O	[1950] 345 346
Bhútkheri Hill Pagoda	Jacra State	At the N. end of a small, isolated hill on the Mandsaur and Jaora state boundary—about 14 miles, N.N.E. of Bhatkeri village, and 5 miles N.W. by W. of the town of Jaora on the main rand from Mhow to Neemuch (Nimach): Western Malwa Agency. 1848.		75 6 07	[1804] 65
Bhûtkheri Hill Treo		At the S. end of a small, isolated hill on the N. end of which stands a pageds: Western Malwa Agency, 1818.	23 40 24	75 559	66, 67
Bhir Kingaou Pagoda	Nizam's Territory	South of the town of that name at the junction of the roads from Aurangebad, Chendrarada, Pipri and Paithan, and about 12 miles S. of Aurangabad. 1845.	19 42 8-3	75 20 41 9	278
Bhokardhan Tower	n ,	Highest and conspicuous tower in the town of that name. 1846.	20 15 30-2	75 48 40 8	207
Bijagath Hill Fort	Indore State	Northern tower of the ruined fort of that name at N.E. corner of a flat-topped high hill, about a mile S. of the old ruined fort of Jalalabad on the most to Bhadwali: pargana Jalalabad; Indore Political Agency. 1647.	21,41 0.9	75 23 58°Y	138

^{*} See description of this station.

Name of Station or Point	District	Description -	Latitude North	Longitude East of Greenwich	Height of Station Height of Structure	210. 02
Bondagaon Hill Tree Maismal	Nizam's Territory	Conspicuous tree on a hill close to the village so called, about 2 miles N.E. of Pipalgaon, and 7 miles W.S.W. of Pulmari town on the read from Aurangabad to Ajanta. 1846.	0 1 11 20 3 46	75 22 16	feet 	223
Bori Hill Peak Gowal Pk.	Barwáni State	About 2 miles S. by E. of the village of that name on the road from Rajpur to Pansemal, and 3½ miles W. by S. of Naktimata village: pargana Pati. Deputy Bheel Agency. 1847.	21 47 34	74 52 45	[2331]	136
Bori h.s	Nizam's Territory	On an isolated hill, about 1½ miles S.S.W. of the village so called on the road from Ranjani to Ambad town, the same distance E. of the latter, and 2 miles N.N.W. of Balagaon. 1845.	19 36 42.09	75 52 3 2 · 95		283
Bori Hill Tree	27	Conspicuous tree close to the preceding station of the same name. 1845-46.	19 36 42	75 52 33	•••	
Búda, XXI*	Rámpura State	. Vide page 3— _{G.}	24 14 11 · 86	75 10 43 06	1526	1
Budapura h.s Gopalpoor H.S. Tree	Rutlam State	On the highest point of a group of hills, about ½ a mile S. of the small village of that name, 3½ miles S.W. of Gopálpura, 2 miles N.W. of Palsoria on the road from Shingarh to Rutlam, and 3½ miles E. of Shingarh: Western Malwa Agency. 1848.	23 21 19.54	74 57 9:14	•••	82
Chakeri 8 Chickara Stn.	Barwáni State	On low ground, about 12 miles E. by N. of Anjar town, the same distance W. by N. of Chápri village, and immediately N. of the cart road from Anjar to Mandwara on the Nahal stream: Deputy Bheel Agency. 1847.	22 241.89	75 7 38 65		131
Chándgaon Tower	Ahmednagar	About \(\frac{1}{2} \) a mile N.N.W. of the village of that name, \(4\) miles N. by E. of R\(\text{Anigaon}, 2 \) miles E. of the road from Paithan to M\(\text{Anûr}, \) and 10 miles S. of the former: sub-division Shevgaon. 1845.	10 10 10.0	75 26 31 . 5	•••	335
Chaoradongar h.s	Nizam's Territory	On a square, flat-topped hill rising about 75 feet above the surrounding plateau, about 8 miles N.W. of Jáina, 14 miles N. of Pangri village, 3 miles W. by N. of Mandwa village, and 44 miles N.N.W. of Nagavádi on the road from Jáina to Aurangabad. The station is denoted by a mark-stone embedded flush with the ground. 1883-84.	19 56 15·87	75 50 37 09	2138	251 252
Chincholi, XXIII†	,,	Vide page 10	18 55 25.27	75 18 41 . 47	2928	47,48
Chincholi Hill Dipmal	Ahmednagar	Large dipmal about 1 of a mile W. by S. of the following station of the same name: taluka Nevasa. 1845.	19 30 12.1	75 5 30 2		322 .
Chincholi h.s	3)	On a low hill, about 1 a mile S. of the read from Pichadgeon to Gevrai, 21 miles W. by S. of the latter, 13 miles S. by W. of Dighi, and 21 miles S.E. of Babulkheda: taluka Novasa. 1845.	19 30 12 · 65	75 5 43 33	•••	316 317

^{*} This station appertains to the Karáchi Longitudinal Series.

[†] This station appertains to the Bombay Longitudinal Series.

Name of Station or Point		District	Description	Latitude North	Longitude East of Greenwich	Height of Station Height of Structure	1. I
Chinnapur Hill Pagoda	***	Nizam's Territory	About 1½ miles W. by S. of the village of that name 3½ miles S.S.W. of Antúr fort, and 4 miles E. o Soigaon on the road from Aurangabad to Bhál. 1846	f) .	75 ¹ 5 49	feet	
Damangaon Hill Pagoda Sawang H. Pag.		"	On a detached hill, about 1½ miles E. of the village of that name, 2½ miles W. of Saranghi village, and miles N.N.E. of Takli large village. 1846.		75 18 55 9		219
Damangaon s	.	11	On a tower close to the rillage so called, about 8 mile W.S.W. of Dongson town, and 4 miles W. of Pangr village on the road from Lonegaon to Júlna. 1845.	i 19 59 49 09	75 51 42:24		250
Daulatabad Fort Flag-staff		11	On the central and highest tower of the hill fort 1845.	. 19 56 28 9	75 15 15 3		269 270
Daulatabad Minarot		n	In the town of Daulatabad, 1845	19 56 37.4	75 IS 33°0;		271
Dohor Hill Templo		Khándesh	Mahader pageda on the hill fort, about 1½ miles S. o. the old revenue town of Deher, 5 miles in the sam direction of Pimparkhed Railway Station of the G.I.P. Line. 1840.	20 16 17.7	74 56 50 0		213
Deo Dongri, V		Gwalior State	Tide page 4_a	23 26 47 79	75 34 44 17	1727	6,8
Deogurária h.s		Indore State	On a detached, conical hill, about \(\frac{1}{2} \) n mile S.W. of the village of the same name, \(\frac{1}{2} \) miles S.E. of the Indocretity. A transway line from the Holkar State Railway leads to the hill which is a celebrated place of pilgrimage: Indoce Political Agency. 1847.	2	75 58 23 52		102 103
Devalgaon Tree		Ahmednagar	Conspicuous tree on the table-land near the village of that name, about 2 miles S. by W. of Karanji village on the road from Amrapur to Ahmednagar. 1845-46.	,1	75 1 46	•	****
Dewás Hill Temple		Dewás Stato	On an isolated, conical hill immediately N. of the high road from Bombay to Agra, the town of Dowás being on the opposite side of the road: Indore Political Agency. 1847.	1 ' 1	76 6 2°9	[2167]	104
Dhubadi Hill Tree Dobari Trees		Nizam's Territory	Near the town of that name on the road from Auranga- bad. 1846.	20 3 23	75 47 6	•••	
Dhaigaon, XXXIV	ng r∙.	Ahmedaagar	Tide page 10_a,	19 30 35 04	75 15 10°99	1553 2'0	44
Dhajára Hill Peak Jamb Ghaut Pk.	••• •	Koselgarh Siate	The highest peak on the Vindhya range, about 3 miles S.S.W. of Kusalgarh, 21 miles W. of Beks rillage, 2 miles N. by E. of Bart Jain rillage, and 41 miles S.W. of the Rajputana-Malwa Railway Line: Indere Political Agency. 1847.		75 51 20	[2747]	115
Dhalmu h.s	, ' '	Ujjsiu State	On a flat-topped hill on a plateau, about a mile S.E. of the village of that name, ? of a mile W. by S. of Kherla village, and 11 miles S.S.E. of the village of Ilui on the cart read from Unel to Ujjain; Western Malwa Agency. 1848.	23 15 39 26	75 42 24 17	[1773]	87

^{*} Sea description of this station.

Name of Station or Point	District	· Description	Latitude North	Longitude East of Greenwich	Height of Station Height of Structure	210.01
Dhamnar, II	Mandsaur State	Fide page 4	23 53 22 29	0 / " 75 11 35 91	fcet 1678 1	1
Dhanora, VII	Sailána State	Fide page 5	23 16 30.53	75 17 42 57	18.0	9
Dhánura Pagoda Dhorkhara pag.	Nizam's Territory	Near the village of that name on the left bank of a tributary of the Ganda river and on the road from Gandapur town, about 4 miles E. by S. of Dhaigaon on the road from Aurangabad to Ahmednagar. 1845.	19 42 56.0	75 14 46 6	•••	276
Dhanvár, XXIV	Khándesh	Vide page 8	20 53 3.31	75 38 29.61	1164.81	31, 32
Dharakpur Hill Tree	Agar State	On an isolated hill on which stands the village of Dharakpur, about 1½ miles S.E. of Bápsia on the road from Barandia to Gangrár, and ¾ of a mile S W. by S. of Ratanpur: Western Malwa Agency. 1848.	23 50 19	75 48 33	[1650]	59
Dhár Hill Pagoda No. 1	Dhár Stato	White temple with a lefty spire known as Kálka Máta on the small hill close W. of a large tank, about a mile W. of the town of Dhár, and close N. of the high road from Dhár to Amjhera: Bheel Agency. 1847.	22 35 51.0	75 19 27 1	[1938]	118
Dhár Hill Pagoda No. 2	"	On an isolated, conical hill, about 1½ miles S.E. of the town of Dhar, I mile S. of the high road to Bombay, and 2 miles N. of Parlia village on the road from Dhar to Dilaura: Bheel Agency. 1847.	22 34 36	75 21 30	[1967] ·	•••
Dhár h.s Amulnair Stn.	Khándesh	On a detached hill about a mile S.S.W. of the village of this name, \(\frac{1}{2}\) a mile S.S.E. of another detached hill crowned with two temples, and 3\(\frac{1}{2}\) miles N.W. by N. of the town of Amalner on the left bank of the Bori river, a tributary of the Tapti (Tapi): taluka Amalner. 1846.	21 443.93	75 429'12	[739]	164 165
Dhutni Peak	Dhár State	Of a conical, rocky hill on the Vindhya range, close to the little village so called, about 5 miles W. of Nálchha town, and 14 miles in the same direction of Amkho village: táluka Nálchha. Bheel Agency. 1847.		75 21 44	[2403]	123
Digau h.s	Mandsaur Stato	This station was originally fixed by the secondary triangulation of the Bhopal and Malwa Topographical Survey, and is on some high ground, about \(\frac{1}{4} \) a mile W. of Chhota Digau, close to the cart road to Somli, \(1\frac{1}{4} \) miles S. by E. of Mália village, and 2 miles N.E. of Bara Digau close to the cart road to Mandsaur: Western Malwa Agency. The station was found to consist of a pillar of stones and mud cement, 18 inches high, and 3\(\frac{1}{4} \) feet in diameter, with a circular stone platform of the same height and 11 feet in diameter. 1882-83.	24 3 42 70	75 12 59 22	1548	50, 51
Dohori h.s	Khándesh	About the centre of a detached hill, about 17 miles 8. by W. of the village of this name, the same distance N.N.E. of Hivarkheda, and 4 miles N.W. by N. of the town of Jámner: táluka Jámner. 1846.	20 51 30 54	75 47 8 10	[.1085]	151

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Name of Station or Point	District	Description	Latitude North	Longitude East of Groenwich	Height of Station No. 4 Height of Trish Structure
Dongaon Hill Dipmal Dondgaon dip.	Nizam's Territory	Near the town of that name, about 7 miles W. of Deal- gaon Rája, 3 miles S.W. of Pokri village on the road from Jafferabad to Jálna. 1845.		75 58 52-2	feet 218
Dongargaon Hill Pagoda No.1	2)	Conspicuous temple on the southern end of a range of hills near Dongargaon village, about 2 miles E. of Sabalgaon, and 6 miles N.W. of Pulmari on the road from Aurangabad to Ajanta. 1846.	1	75 24 41 7	220
Dongargaon Hill Pagoda No. 2 Patri H.Pag.	11	Dome of the pageda near the village of that name, about 4 miles E.N.E. of Pulmari on the read from Aurangabad to Ajanta, and 3 miles S.S.W. of Patri village on the same road. 1846.		75 30 52.6	22
Dudhála, IV	Jhallawar Stato	Fide pago 4—g,	23 50 54 31	75 49 25 06	1675 5
Dulet Temple	Indore State	Close to the village of that name on the right bank of the Sipra river, about \(\frac{1}{2}\) a mile W. of the cantonment boundary of Mehidpur: Indore Political Agency, 1848.		75 40 5.6	78,
Dundgaon Mosque	Nizam's Territory	Close S. of the village so called on the read from Ambad to Paithan, and about 5 miles S.W. of the former. 1845.	19 30 53.3	75 42 · 4°0	30
Gandali Hill Pagoda No. 1	11	On a detached hill close to the read from Aurangabad to Pátoda, close E. of the village so called, and about 5 miles S.E. of Aurangabad. 1845.	19 49 29 7	75 26 11 4	27
Gandali Hill Pagoda No. 2	ı,	On a conical hill close S.W. of the village so called, about 4 miles E.S.E. of Satara town, 2 miles S. of the road from Aurangabad. 1845.	1949 4	75.25 19	
Ganori Penk	19 -	Of a conical hill near the village of that name, about 6 miles S.W. of Palmari town on the read from Aurangabad to Ajanta. 1846.	20 311	75 23 18	2
Gedaida Dipmal Birkingaon Dip.	rt	Close to the village of that name, about 2 miles S.W. of Rhir Kingaon town, the same distance N.N.W. of Suppura village on the read from Bhir Kingaon to Tandeli. 1815.	1941 14.7	75 19 39 0	27
Gerrái Hill Pagoda Gerrai H.Pag	19	Large spire of the pageda about 31 miles S.W. of Gerrai town, 21 miles W. by N. of Doke Vadagaon on the read from Gerrai. 1845.	19 13 41 9	75 45 3 2	30
Ghátumbri h.s	n	On n peak on the verge of the ghat, about 2 miles W. by S. of the village so called, close N.R. of the small village of Nanagnon, 7 miles W.N.W. of the large village of Undangaon, and 44 miles B. by W. of Baitalvadi town, 1846.	203037-34	75 37 75 93	18

Name of Station or Point	District	Description	Latitudo North	Longitude East of Greenwich	Height of Station Height of Structure	1
Ghiregaon Tower	Ahmednagar	In the centre of the small village of that name, about 24 miles E. of the large village of Saldbatpur, 21 miles N. of Gevrái, and 14 miles W. by S. of Sirasgaon: táluka Nevása. 1815.	19 32 48.4	0 1 11 - 75 7 40 4	feet 	323
Godagaon Hill Peak Gorehgaon Pk.	Nizam's Territory	Of a conical hill, about 14 miles E, of the village of that name, 6 miles N.E. of Daulatabad, and the same distance E, of Röza town on the road to Daulatabad. 1815-46.	20 012	75 19 9		227
Golagaon Domo	19	Close to the village so called, about 4 miles E. by N. of Röza town, 6 miles N. by E. of Daulatabad, and 1 mile N. of Godagaon. 1815.	20 115.5	75 18 45.0	•••	•••
Golagaon h.s Golehyaon Pk. Stn.	. , ,,	On the centre of a conical hill, about 14 miles E. of the village of that name, 7 miles N.N.E. of Daulatabad, and the same distance E. of Ellora. 1816.	20 1 20 51	75 19 53-66	•••	225
Gula Pagoda Golar pag.		Near the village of that name, about a mile S. by W. of Pangri, 9 miles in the same direction of Jálna, and 1 mile E.S.E. of Nagjári village on the road from Jálna to Ambad. 1845.	19 43 29 3	75 52 46-3	•••	295
Gosainbaira h.s	. Dhár State	This station was originally fixed by the secondary triangulation of the Khandesh Topographical Survey, and is on a low hill of that name lying 2 miles S. of Kharakwani village, and 1 mile W. of the read from Southeri to Dolani: Bheel Agency. The station was found to consist of a mark-stone buried flush with the ground and protected by a large heap of stones. 1882-83.	22 4 2.81	75 30 26 47	972	130
Gualed Hill Tree	Jhallawar State	On a small hill about { of a mile N. by W. of the village so called, and I mile N.E. of Rojána on the eart road from Dag to Gangrár: Harowtee (Haráoti) Agency. 1847-49.	23 57 42	75 44 38	[1628]	55, 56
Guddana Hill Pagoda Maismal H. Pag.	. Niram's Territory	About a mile N.E. of the village so called, 2 miles S. by E of Takli large place, and 41 miles N.E. of Röza town. 1815.	20 322.6	75 17 26.5	•••	226
Gumánpur, XVI	. Amjhera State	Fide page 7—a	22 34 50.27	74 54 59 56	1825 5°3	21
Gurárin Hill Peak . Bariah Pk.	Indore State	The highest and conspicuous summit of a hill, about a mile W.N.W. of the village of that name, 3 miles W. of Baroda village, and 2 miles S. of Asrawad village on the road from Indore to Rágliogarh: Indore Political Agency. 1817.	22 40 23	76 045	[2295]	106
Gurla, VIII	. Gwalior State	Tide page 5	23 17 36 14	75 35 36 57	1716 6·7	10
Harnása, XII	Depálpur Stato	Fide page 6	22 47 29 91	75 35 37 33	1818	15
Hatgaon Tower Hadgaon S.W. Ft.	. Ahmednagar	S.W. tower in the village so called on the road from Mungi, about 31 miles S. by E. from the latter, and 2 miles E.S.E. from Pingvádi village; táluka Nevása, 1815.	19 21 38.3	75 30 11 2	***	331

				- 135. - 135.
Name of Station or	Point	District	Description Latitude Longitude Height of Station North Greenwich Height of Greenwich Height of	No.ot
		<u> </u>	Greenwich Structure	1166
Hukarda Pagoda		Nizam's	Transitation and the first of t	ر مین
никатав Радоав	•••	Territory	Immediately above the S. bank of a stream, about 4 of a 19 7 53 3 75 29 0 1 mile W. of the village so called, 24 miles N. by W. of Bhálgaon, and the same distance S.S.E. of Mirsángvi. 1845.	319
				150
Indore Pagoda	•••	Indoro Stato	Mahadev pagoda close W. of the palace in the city: 22 43 3 0 75 53 46 2 [1791]. Indore Political Agency. 1847.	107
Indore Palace	***		In the town. 1847 22 43 6. 75 53 49	23.4
1		}		
Indráwan, XIII	•••	Dhár Stato	Fide page 6_G 22 48 48 54 75 13 23 78 1834	16,1
	-	}	7.5 -	
Jadgaon h.s		Nizam's	On a hill, about a mile N. of the village so called, the 1950 44 72 75 33 30 94	258
Jurgaon Stn.	•••	Territory	same distance E. of Tongaon, and 14 miles S.S.E. of Ladgaon on the read from Aurangabad to Jálna. 1645.	259
Jaipur Hill Treo Jowpoor Treo	•••	,,	About 1 a mile 8. of the village of this name, 21 miles 1953 29 75 34 18	260
Southout Ties			to Jálna, and the same distance S. by W. of Bangaon on the road from Aurangabad to Ladsangvi. 1845.	13,23
Jalálabad, XIX	***	Khargon State	Vide pago 7—g 21 40 35 29 75 26 34 90 2613	:21
Jalálkhori, X		Ujjain	Tide page 5_G 23 10 34 89 75 44 35 01 1749	14
	•••	State	3.8°.	1
Jalka Peak Itnar Pk.	***	Khándesh	Towards the N.W. end of a small detached hill, about 11 20 52 28 75 34 6	150
		,	ed road from Mhasávad to Jánner, and 43 miles S.S.E. of Shireoli Station on the G.I.P. Railway: sub-division Nasirabad. 1846.	
ž		1	Australian. 1020.	
Jalki Hill Pagoda Dhamni H. Pag.	***	Nizam's Territory	Spire. About 11 miles S.S.W. of the village so called, 20 24 52 3. 75 34 20 8 the same distance N.N.E. of Tulni village, and 21 miles N.N.W. of Kharsod. 1845-46.	.195 196
•			miles M.N.Y. Of Milarsout, 1940-40.	
Jalki Hill Peak		,,,	About 3 miles W.N. W. of the village so called, 2 miles W. 20 27 8. 75.32 14	***
	* .		by N. of Jambaí village, 2½ míles N.N.E. of Sindphal, and 11½ míles W. by N. of Undangaon. 1846.	ينز د
Telno Trut Danis	2000	1.2.	White pareds E. of the town on the road to Sindkhed, 19 51 39 2 75 58 47 0	ii. Taba
Jálna Hill Pagoda		**	White pageda E. of the town on the read to Sindkhed, 1951 39 2 75 58 47 9 and near the village of Murthi on the same read. 1845.	289
	`	1 . , '		ĥ
Jalna Pagoda	-400		Largo white Gampail pagoda E. of the town and W. 1951-14-8 75 56 54.0 of the Infantry and Caralry Lines. 1845.	287 288
	,	ting i		; , ,

Name of Station	n or Point		District	Description	Latitude North	Longitude East of Greenwich	Height of Station Height of Structure	
Jalodia h.s.		•••	Dhár State	This station was originally fixed by the secondary triangulation of the Bhopal and Malwa Topographical Survey, and is on a slight rise near the western edge of a plateau, about 2½ miles W. by N. of the village of Jalodia, 3½ miles N.W. by N. of Kod town, and the same distance W.S.W. of Píplia. It is close to the road from Kod town to Delchi: Bheel Agency. When visited in 1883, the station was found to consist of a mud and stone platform 1 foot in height, laving a mark-stone in its upper surface flush with the ground, the platform was raised to 8.8 feet above the ground level. 1882-83.	0 1 11 22 55 29 04	0 1 11 75 11 24*83	feet 1825 8·8	98, 99
Jambai Peak	***	•••	Nizam's Territory	About 4 miles W.N.W. of the village so called, and 3 miles N. by W. of Sindphal. 1846.	20 28 5	75 30 45	, 	
Jamdi h.s. <i>Jambti</i>	•••	•••	"	On a peaked hill, about 2 miles S. of the village of that name, the same distance N.W. of Sirjapur, and 6 miles W. by S. of Kanad town on the road from Aurangabad. 1846.	20 14 48 35	75 5 23 73		212
Jámkhed, XXXI	•••	•••	2)	Fide page 10	19 40 33 04	75 41 55.24	2174 3.0	39, 41
Jámner Hill Peak	 ,		Khándesh	The lowest and westernmost of the three small isolated hills about \(\frac{1}{2} \) a mile apart and lying in a line \(\frac{1}{2} \) moreover \(\frac{1}{2} \) of a mile \(\frac{1}{2} \) of the town of \(\frac{1}{2} \) amner, the road from Jámner to the village of Kodli passes by the western foot of the hill: \(\frac{1}{2} \) taluka Jámner. 1846.]	75 49 41	[984]	153
Jámnia Hill Peak Mandogarh Pk.		***	Dhár State	Of a conical hill at the S. edge of a plateau, about 2 miles E.S.E. of Mandogarh hill fort: Bheel Agency. 1847.	22 19 6	75 28 11	[2270]	128 129
Jánapáv Hill Pago Hasarpoor H. I		•••	Hásilpur Stato	A pagoda so called, surrounded by trees, on the highest point of a range of hills running N. and S., about 2½ miles E. of Jesarnagar on the high road from Bombay to Agra, and 4 miles S.E. of Hásilpur town: Holkar Territory. 1847.	22 27 33 2	75 43 45 0	[2803]	116
Jaola Hill Peak	•••	•••	Nizam's Territory	About 43 miles S. of the village so called 13 miles S.W. of the Megaon Chauki on the road from Dhaora to Sávda town, and 3 miles N.N.W. of the former. 1846.	20 32 31	75 55 20		190
Jaora Palace	•••		Jaora State	In the centre of the town on the Rajputana-Malwa State Railway: Western Malwa Agency. 1848.	23 38 16	75 10 4		
Jarandi Hill Pago	da	•••	Nizam's Territory	On a hill close to the small village of that name, about 5 miles W. by N. of the town of Baitalvádi. 1846.	2034 7:1	75 35 36.8		187 188
Jatoda h.s. Jatora Stn.		•••	33	On a hill, about 3½ miles E.N.E. of the village so called, 7 miles N.E. of Daulatabad, and 4 miles N.W. of Mangsángvi village on the road from Aurangabad to Pulmari town. 1845.		75 21 18 28	•••	228

Name of Station or Point		District	Description	Latitude North	Longitude East of Greenwich	Height of Structure	No. of
Jatoda Hill Tree	•••	Nizam's Territory	Largo tree about 200 yards 8.W. of the secondary sta- tion of the same name. 1845-46.	19 59 52	0 , , , , , , , , , , , , , , , , , , ,	feet :	220 230
Ihar Hill Treo Jarandla H. tree	•••	Rutlam State	Large tree at the N. end of a plateau, about 14 miles N.W. by N. of the village of Jhar, 1 mile S. of Nunera, and the same distance N.E. of Sarwaria: Western Malwa Agency. 1848.	1 - ' '	75 15 25	[1879]	83,8
Joharapur Tower	•••	Ahmednagar	Large tower in the village so called, about 31 miles W.N.W. of Shergaon town on the road from Paithan, and 2 miles N.N.E. of Samangaon on the same road: táluka Novása. 1845.		75 13 14 1		827
Innvána Hill Peak <i>Mandrai Pk.</i>	•••	Khándesh	Conspicuous hill peak locally known as Mandrai, about 3 miles N.W. by W. of Junyana village close W. of the and 44 miles S.E. Malegaon to		74 50 9	[1875]	16
Kachner Hill Tree	***	Mandsaur Stato	Large free on some high ground, about 1 of a mile W. of the Holkar-Neemuch State Railway, 1 mile N.W. of the rillage of Kuchner, 14 miles S.E. by B. of Sirsoda village on the road from Nagari to Nimod, and the same distance N. by E. of Lasuria: Western Malwa Agency. 1847-48.		75 8 28	[1667]	6
Kadgaon Hill Pagoda	•••	Nizam's Territory	Pagoda surrounded with trees on a hill near the village of that name, about 2 miles W. of Nethana village, 1½ miles S.E. of Pangri, and the same distance N.W. of Nagavádi village on the road from Jálna to Aurangabad. 1845-46.	19 53 49 6	75 51 53 6		25
Káládeo Pnlaco		Vjjsin Stato	On an island in the Sipra river, about \(\frac{1}{2}\) e mile N.W. of Kaladeo, 3 miles N. of the town of Ujjain: Western Malwa Agency. 1848.	23 14 44	75 49 0		
Kúlágaon Pagoda	**;	Nizam's Territory	Near the village so called on the left bank of the Dudhna river, about a mile N. of Daitanna village, and 3 miles W. of Hisran village on the road from Jalua to Gunsangvi. 1845.	19 42 10.7	75 57 29 6	•••	25
Kannd h.s Palashkheir		.#	About 2 miles S.W. of the town of the same name, and the same distance N.E. of Pallaskhed village. 1846.	20 14 24 52	75 9 55 20		21
Kankrij h.s.		Kliandesh	On a tomb on a small detached hill having the village so called at its N. foot, about 21 miles E.N.E. of the large village of Bahádurpur on the left hauk of the Bori river, and 4 miles N.W. by N. of the town of Perola on the high road from Bhulia to Erandol; táluka Amalner. 1846.	20 55 35 08	75 6 57 94	[861]	10
Kankura Hill Tree		Nizam's Territory	About a mile S.E. of the village so called on the read from Aurangahad, 3 miles N.E. of Palsi on the rame road, and St miles in the same direction of Auranga- bud. 1845.	19 58 10	75 29 3		24

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station Height of Structure	
Kanthária Hill Tree Allote H. tree	Dewás State	Close to the village of that name on some high ground, about a mile E. by S. of Richia, the same distance S. by W. of Dialpura, and 5½ miles W.N.W. of Ghát Piplia on the right bank of the Sipra river: Indore Political Agency. 1848.	23 40 45	75 34 53	feet [1598]	62
Kapátal h.s	Amjhera State	This station was originally fixed by the secondary triangulation of Bhopal and Malwa Topographical Survey, and is on a little isolated hill about 60 feet above the ground to the W., \(\frac{2}{3}\) of a mile S.W. of the village of that name, 2 miles S.S.E. of Lergaon, and the same distance S.W. of Balodo on the road from Dasai town to Amjhera: Bheel Agency. The station was found to consist of a mark-stone buried nearly flush with the ground, but in 1882-83 four other stones were buried around it with marks engraved thereon, the intersection of lines joining them coincided with the station mark which is covered over with a cairn of stones. 1882-83.	22 39 8.50	75 744`05	1880	96
Karai h.s Kurrai Hill Stn.	Indore State	On a small isolated hill, about ? of a mile S. by W. of the village of Karai, near the Indore and Gwalier state boundary, and 3 miles S. of the town of Mehidpur: pargana Mehidpur. Indore Political Agency. 1848.	23 26 38 93	75 40 41`54	[1661]	74
Karai Pagoda	39	Between the village of that name and the tank to the W. of it, about 2 miles S. of Mehidpur town, and I mile W.N.W. of Likakheri village on the road from Ujjain to Mehidpur: pargana Mehidpur. Indore Political Agency. 1848.	23 27 14-4	75 41 11.5	•••	80
Kåregaon Tower Kaligaon	Ahmednagai	A few yards N.W. of the village of that name, about \$\frac{1}{2}\$ of a mile W. of the right bank of the Godárari river, 3 miles E.N.E. of Khamgaon, and 4\frac{1}{4}\$ miles N. by E. of Dahigaon; táluka Novása. 1845.	19 33`42°0	75 14 25 4	•-•	325
Karsod, IX,	Ujjain State	Vide page 5—g	23 6 46-48	75 28 12.70	1781 5	11
Karsod Hill Pagodą	"	About 1½ miles W.S.W. of the village of that name, 1 mile N.N.W. of a police chauki on the road from Barnagar town to Karsod, and 5 miles N.E. of the town and Railway Station of Barnagar: Western Malwa Agency. 1848.	23 6 47-6	75 28 11.7	•••	•••
Kasaner h.s	Nizam's Territory	On a conical hill, about 3 miles S.S.E. of the large village so called on the road from Bhir Kingaon to Ambad, 1 mile E. of Darragaon, and 1½ miles N.N.W. of Parundi village on the road from Chhota Haddulto Tupvádi. 1845.	19 39 58.05	75 31 16.05		256 257
Kaula-ka-Máta, XI	Sailána State	Vido page 6	23 748.21	75 12 33 30	1948	12, 13
Kekatnimbhora h.s. Tikutnimbor Stn.	Khándesh	On the northern one of a small group of hills, about a mile W. of the village so called on the metalled read from Jámner to Ner: táluka Jámner. 1846.	20 49 12 16	75 44 33`77	[1018]	152
Khámkhed Hill Pagoda	· Nizam's Territory	On the peak of a high hill, about 1½ miles W. of the village so called on the left bank of the Karpura river, the same distance S. of Chincheli village, and 3 miles W. of Pädgaon on the road from Bid town. 1845.	19 5 8·8	75 44 42 0	•••	342 343

Name of Station or Point	District	Description	Latitudo North	Longitude East of Greenwich	Height of Biructure	
Khandra Hill Lasoor H.	Khávdesh	Centre of a large hill in the Satpuda range, about † a mile N.E. of the small village of Khandra on the left bank of the Aner river, and 54 miles N. of Ganpur also on the left bank of the same river; taluka Shirpur. 1847.		75 11 7	feet	110
Kharvándi Hill Pesk	Ahmednagar	About the centre of 23 miles N.N.E. o tanco E. of Nand of Nagalvádi: táluka Shevgaon. 1845.	19 11 59	75 25 40		849
Kilanki Fort Kalanki Fort	Nizam's Territory	Centre of the hill fort, about 14 miles S.W. of the village of that name, 11 miles W. of Kanad town, and 5 miles S.E. of Deher old revenue station. 1846.	20 14 43	75 0 21		
Kodi h.s	Amjhera Stato	On a peak of a high range of hills lying E. of the Uri river and running E. and W., about 1½ miles N.W. of the village of Kedi, the same distance S.W. of Tehelghata, and 4 miles E.S.E. of Tanda town: Bheel Agency. 1847.	,	74 58 20-4	[1778]	
Kologaon Hill Trev	Nizam's Territory	About 21 miles W. of the village so called, the same distance S.W. of Kowdgaon, and S. of Pipla village on the road to Umred. 1845.	19 9 53	75 38 15		311
Koralla Hill	31	The northern brow of a hill on the edge of the ghat, near the small village of that name, about 10 miles W.S.W. of Baitalvadi, and 12 miles W.N.W. of Undangaon. 1846.		75 30 26		191
Kulah h.s Shendoorni Stn	Khándesh	On a hill dargah close to the village of that name on the road from Shendurni town to Pachera Railway Station, and about 5 miles W.S.W. of the former: tšluka Jamner. 1846.	l •	75 37 27 52		182 183
Kwála s	Ujjain State	This station was originally fixed by the secondary triangulation of the Bhopal and Malwa Topographic, cal Survey, and is on a small tank bank close E. of the small village of Kwala on the road from Barnagar town to Packunda, 21 miles W. of Gunáwad, and 31 miles N. by W. of Pipla: Western Malwa Agency. When re-fixed in 1883 the station was found		75 26 30 32	1736 4.5	89,00
Lilgarb Hill Pagoda	Amjhera	to consist of a platform of mud and stones, 4; feet in height, having a mark-stone in its upper surface. 1882-83. Largo paroda at the north end of the old fort on a flat-	22 30 27 - 8	75. 5 45 1	[1790]	121
	State	topped range of hills; about 2 miles 8. of the edge of the Central India plateau, 14 miles 8.2., of the village of Lalgarh, the same distance 8. of Bhaikhodra on the road from Garakui to Mendha, and 5 miles 8.W. of Amilhora town: Bheel Agency. 1847.			73 S	122
Laling Hill Temple	Khándesh	White demed temple in the hill fort, about i a mile S.W. by S. of the village so called on the high road from Milegeon to Dhulla, and 61 miles S.S.W. of the latter town: taluka Dhulla. 1840-47.	20 48 40 4	74 46 51 • 4	[936]	160 161

Name of Station or Point	District	Description -	Latitade North	Longitude East of Greenwich	Height of Station Height of Structure	110.01
Lasulia Hill Tree Loosaria H. Tree	Gwalior State	At N. edge of a plateau, about 2 of a mile S.E. of the village so called, 12 miles N.E. of Gurla on the road from Unel, and 2 miles S. by E. of the town of Unel: táluka Unel. 1848.	0 / // 23 18 11	75 3 6 9	feet	
Limbgaon Hill Masjid Nimbgaon dome	Nizum's Territory	Double domed masjid, about ½ a mile W. of the village so called on the left bank of the Nanni river, and 1½ miles E. by N. of Roisingi village on the road to Yellim. 1845.	19 727.4	75 33 7.0	•••	***
Lohári, VI	Jaora Stato	Vide page 5	23 34 57 88	75 8 16.03	13.4	7
Lupára h.s	. Ujjain State	Towards the S. end of a flat-topped hill, about ½ a mile N.W. of the village so called, 2½ miles E. of Jahángir, pur town, and 13 miles W. of the town of Ujjain: Western Malwa Agency. 1848.	23 12 38.25	75 36 7.75		88
Machla Hill Peak	Indore State	Of a small conical hill, about a mile W. of Machla village, 2 miles S.E. of the village of Rão on the high road from Mhow to Indore, and the same distance E. by S. of the Railway Station of that name: Indore Political Agency. 1847-48.	22 37 12	75 5 ² 53	[2279]	109 110
Machla Hill Temple	n .	A small ruined temple on the centre of the large isolated hill, about 1½ miles S. of Machla village, 3 miles N.W. by N. of Datoda village, and midway between the high roads from Indore to Mhow and from Indore to Khandwa: Indore Political Agency. 1847.	22 35 58 9	75 53 37 0	[2508]	111
Maholi Peak	Nizam's Territory	About a mile S.S.W. of the village of that name, 2 miles N.E. of Katagati village, 3 miles E. of Palsi on the road from Aurangabad, and the same distance N. of Barud village on the high road from Aurangabad to Akola. 1845-46.	19 56 14	75 30 6	•••	237
Málágaon No. 1 h.s	,	On a ruined hill pagoda, about \(\frac{1}{4} \) a mile S. of the village of that name, 3 miles S. of Dongaon town, and the same distance W. by N. of Wagrul on the road from Jálna to Deulgaon Rája. 1845-46.	1959 8.00	75 58 6·79		244 245
Málágaon No. 2 h.s	,	On a hill, about \(\frac{1}{2} \) a mile S.E. of the village of that name, 3 miles S. of Dongaon town, and the same distance W. by N. of Wagrul on the road from Jálna to Deulgaon Rája. 1845.	19 59 1 1 •99	75 58 31*94	•••	246
Manvel s	Khándesh	On the top of a large building in the village so called close S. of the Bonak stream, about 1\frac{1}{2} miles S.W. of the large village of Sakli, and 3\frac{1}{2} miles E.S.E. of that of Dambhorni: taluka Savda. 1846.	21 912.67	75 38 57.24	•••	148
Mathuri, XXXIII	Nizam's Territory	Tide pago 10	19 10 34 78	75 31 46.95	2188	43, 45
Mehidpur Bungalow	Indore State	Colonel Sandys' bungalow at the N.W. corner of the town on the bank of the Sipra river: Indore Political Agency. 1848.	23 29 31	75 41 29	•••	•••

^{*} See description of this station.

Name of Station or Point	District	Description	Latitude	Longitude East of Greenwich	Height of Station Height of Structure	
Mebidpur Flag-staff	Indore State	At the N.W. corner of the town, and near the E. bank of the Sipra river: Indore Political Agency. 1818.	23 29 48 6	75 41 38 6	feet	76
Mehidpur Jail	93	W. of the town, and about ½ a mile E. of the Sipre river: Indere Political Agency, 1848.	23 29 22	75 41 37		
ifehidpur s	,,	On the Kotwal's Chabutra in the town: Indore Political Agency. 1849.	23 29 18 98	75 41 50 75	**************************************	75
Mehidpur Tomb	,,	Gudar Shah's tomb at the N.W. corner of a small flat-top ped hill S.E. of the town: Indere Political Agency, 1848.	23 28 57 7	75 42 8 9		77 77
Mehon Hill Pagoda Mayhoon H. Pag. s.	Nizam's Territory	About a mile S.W. of the village of that name, and 4 miles E.S.E. of Soigaon on the road from Aurangabad	20 21 39	75 14 53		
		to Bhál. 1846.				(1.5)
Mhow Church s	Indore State	On the steeple of the church in the town, about a mile W. by N. of the Railway Station: Indore Political Agency. 1847.	22 33 35 90	75 48 7 57	[1924]	118
Mitmita Peak	Nizam's Territory	Southern brow of the table-land from which Daulatabad hill fort is detuched, about 11 miles N. of the village of that name on the road from Aurangabad to Daulatabad, and 3 miles E.S.E. of the latter town, 1845.		75 18 22		236
Moda h.s	25	On a hill, about 2 miles E.S.E. of the large village of that name, 3 miles N.W. by N. of Sillöd on the road from Aurangabad to Ajanta, and 15 miles S.S.W. of the latter. 1846.		75 40 6 39		200 201
Mograba, XIV	Dhár State	Tide page 6	22 22 44 21	75.21 38 57	. 2464	18
	Try Couloub			,		159
Mobári Hill Peak Lak pk.	Khandesh	Highest point of a hill close to the village of that name, about 3½ miles N. of the road from Shendurni to Páchora, and 6¼ miles E.N.E. of the latter: táluka Páchora. 1846.	1	75 30 44		1200
Mohári h.z. Lal: Sin.		Near the village of that name, 31 miles N. of the road from Shendheni to Páchora, and 63 miles E.N.E. of the latter: thuka Páchora, 1846.	20 43 57, 24	75 31 15.28		157 158
	Mandenur	At the S.E. end of a low flat hill adjoining the hamlet of Illumbol, about 14 miles S.S.E. of Multanpura,		75 411	[1538]	
Multangura Hill Tree	State	the same distance W. of the Rajputana-Malwa Ruilwar Liue, it unles N.W. of Mundsaur, and 14 miles N.B. of Boyoli rillage at the junction of the currous from Mandsaur and Botalgani; Western Malwa Agency. 1847-48.				
Mundrick Peak Mondkari pto	Niram's	About 2 miles W. of the rillage of that name, 7 miles W. by N. of Kanad town, and 10 miles S. of Chalis- gaon. 1846.	2017 4	75 4 30		218

Name of Station or Point	District .	Description	Latitude North	Longitude East of Greenwich	Height of Station Height of Structure	No. of Triangle
Muramba h.s Mooramkeir Pk. Stn.	Nizam's Territory	This was originally a station of the Hyderabad Topographical Survey, and is on a conical hill, about 11 miles S.E. of the village of Muramba on the high road from Aurangabad to Akola, 21 miles S. by W. of Ladsángvi town, and 2 miles W. of Daragaon. 1845.	0 1 19 56 15.18	。," 75 3 8 47 · 73	feet 	238 239
Nágápur Hill Mosque	23	About a mile W. of the village of that name, close N. of Ambagaon, 61 miles E. by S. of Soigaon on the road from Aurangabad to Bhál. 1846.	20 23 28	75 18 16		
Nagda Hill	Dewás State	The point is towards the northern end of a flat-topped hill, about a mile S. of Nagda village, 42 miles S. by W. of the Dewas town, and 22 miles S.E. of Rasulpur villags on the high road from Bombay to Agra: Indore Political Agency. 1847.	22 53 51	76 5 0	[2216]	105
Nagora 8	Dhár Stato	This station was originally fixed by the secondary triangulation of the Bhopal and Malwa Topographical Survey, and is about 1½ miles N.W. of the village of the same name, 1½ miles N.E. of Palwara, and 4½ miles in the same direction of Makni village on the high road from Rutlam to Indore: Bheel Agency. The station consists of a mud platform 5 feet 9 inches above ground level with a mark-stone in its upper surface. 1882-83.	22 49 31 45	75 23 6.03	1784 5·8	94, 95
Naktimáta Peak Bomaldeo	Barwáni State	About 2½ miles S.S.W. of the village of that name, 2½ miles S. of Sustikhera, and 3½ miles S. by W. of Monimáta on the road from Rájpur to Pánsemal: pargana Páti. Deputy Bheel Agency. 1847.	21 46 31	74 54 32	[2274]	137
Nálchha Hill Dargah	Dhár Stato	On a small isolated hill locally known as Telantckri, about ½ a mile S. of Nálchha town, and immediately E. of the road from Nálchha to Mándogarh: táluka Nálchha. Bheel Agency. 1847.	22 24 38 3	75 27 0'5	[2275]	124 125
Nandi Hill Peak	Nizam's Territory	Of an isolated hill, about a mile S. of the village of that name, close to the road from Maldi village to Rohillagad, and 2½ miles N.N.W. of Ambad town. 1845-46.	19 39 33	75 46 22		301 302
Nandkhed Hill Tomb	>1	About ½ a mile N.E. of the village so called, 5 miles N. of Ladsangri on the high road from Aurangabad to Akola, and 7 miles W. of Dhabadi on the same road. 1845-46.	20 2 35 5	75 39 22 7	•••	241 242
Nenod Hill Tree Nenoond h. trees	Indore State	Clump of trees on the northern and higher of two summits of a hill, about 200 yards W. of the road from Indore to Depálpur, about 1½ miles N. of Nenod village, and 5 miles N.W. of Indore city: pargana Samer. Indore Political Agency. 1847.	22 44 42	75 48 54	[1986]	101
Netjai Hill	Ahmednagar	A conspicuous hill close S.W. of a similar hill on which the following station is situated: táluka Shergson. 1845-46.	19 647	75 921	•••	352
Netjai h.s	11	On a ruined temple about 27 miles N.W. of Manekdandi village, 21 miles E.N.E. of Savargaon, and 6 miles S.E. by S. of the large village of Tisgaon: taluka Shevgaon. 1845-46.	19 654*09	75 9 26.25	•••	314 315
Nigrun, III	Jaora State	Vide page 4—g	23 45 59*27	75 27 25 29	1587	4

Name of Station or Point		District	Description	Latitude North	Longitude LEast of Greenwich	Height of Structure	No. of Triangle
Nimbgaon Pagoda	•••	Ahmednagar	Large double domed pageda in the village of that name, about 5 miles E. by S. of Shevgaon town on the road from Paithan, and a mile E.N.E. of Malegaon: taluka Shevgaon. 1845.	1	0 / " 75 20 47 7 :	feet	3 31
Nimbgaon Tower	•••	ú	In the village of that name on the road to Shabaraldi, and about 11 miles N.E. of it: taluka Novasa. 1845.	19 27 59 6	75 13 33 0	***	327
Nirud Tower Niloor	•••	Nizam's Territory	Northern tower near the village of that name, about 2 miles E. of Boigaon on the road from Aurangabad to Ajanta, and 11 miles W. by S. of Bhokardhan town. 1846.		75 39 11 1		205
Páchora h.s	••,	Khándesh	On a hill, about 31 miles W. of the town of that name, and the same distance E. of Bhadgaon: téluka Páchora. 1846.	20 41 22 93	75 22 41 60	(4 m ()	178 174
Padmála h.s Powar Thalla stn.	•••	п	On a temple on a flat-topped hill, about 5½ miles 8.E. of the town of Erandol on the high read from Dhulia to Jalgaon, 3½ miles W. of the large village of Mhasárad on the left bank of the Gírna river, and 7 miles N. by W. of Maheji Railway Station of the G.L.P. Line: táluka Erandol. 1846.	20 52 8 36	75 26 14 93	•••	149
Paithau Hill Dargah		Nizam's Territory	On the right bank of the Godávari river, the town of Paithan being on the opposite bank. 1845.	19 27 58 4	75 26 1 6	* *** ,	
Páldhi h.s	•••	Khándesh	On a hill, about 2 miles S. by E. of the large village of this name on the metalled road from Erandol to Jalgaon Railway Station of the G. I. P. Line, and 4 miles N. W. by N. of Shirsoli Railway Station: taluka Nasira- bad. 1846,	20 58 57 86	75 30 50*49	[946]	147
Pallaskhed Hill Tree	***	Nizam's Territory	Largest and most conspicuous of several trees on a hill, about 3 miles E.S.E. of the village of that name at the trijunction of the roads from Jaffrabad, Lonegoon and Babulgson, 8 miles S.S.W. of Jaffrabad, and 5 miles N. by E. of Dongson, 1816.	20 618	75 59 36		243
Polsi h.s	•••	n /	On a conical hill, about 14 miles S. of the village of that name, 4 miles N.N.W. of Boigaon on the road from Aurangabad to Ajanta, and 54 miles W. of Chintashaida on the same road. 1846.	1 1	75 35 45 16	•••	197
Pan Chandra Hill Dipmal Shendra II. Dip.	•••	11		19 53 46 6	75 57 33 7	•••	258
Pancher Hill Pagoda	-,.	Butlam State	White pageda on a low isolated hill, about a mile S.E. by S. of the small town of Pancher, and i a mile E. of the carl road from Pancher to Rutlam: Western Malwa Agency. 1848.	23 26 16.6	75 352-1	•	81
Párgaon Tower		Niram's Territory	In the village of this name near the head of the Kina stream, about 11 miles N. by W. of Malagaon, and 11 miles S.E. of Nagalvadi. 1845.	1912 6.5	75 28 2 8	· · ·	347

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station Height of Structure	1
Párlia h.s	Ji allawar Fizic	On a low hill, about a mile R. by R. of the village of that rame on the cast road from Sitanian to Mehitpur, and the same distance S. by W. of Amiakhera village on the real from Sitanian to Gangrári Harostee Agency. 1847-49.	0 / // 23 55 24 41	6 , ,, 75 35 36·44	fect [1529]	53, 51
Parnaji Pagoda No. 1	Ujjsin State	At the N. end of the village so called, and i a mile SE. by S of Farralberi village on the read from the town of Pariods to that of Khichmuda Western Malwa Agency, 1848.	23 30 25·I	75 19 32 7	•••	72
Parnaji Pagola No 2	a	About 10) yards W. by S. of the parada described above. 1889.	#3 30 # 1 .7	75 19 19 9	•••	78
Parpakheri he	entition and the state of the s	This station was originally fixed by the secondary tri- angulation of the liberal and Malus Topographical Survey, as I is an a wall is dated hill, about finding E.N.E. of Pernahleri village, as 10 miles 8.8 F of the from of Intribular Western Malus Agency. The stati tion was found to consist of a platform of earth at a stockalment 5 feet high with a mark-stone in manyper aurists. 1808-53.		75 19 22179	167 <u>8</u> 5	70,71
Pärper Tonur	Norm's Tember	S. of the rillage on called on the read from Illes to Arthof, about I will less N. of the latter place, so I li- mits If of Malli village on the read from Ambad to Hechangarm. 1845.		75 49 43 5	***	301
Parela Idgah Merola Idga	estada e como estado e como estada e como es	Near the village co-called on the real from Aurangabed to Past an about a rille N. of Bhir Kinga month exame goal, and 12 rules B. of Aurangabad, 1845.	19 42 46.3	75 :0 35'1		277
Parandi Hill Pagels	Be de december of the second s	On a complement lill, about 2 pilles N. of the village of that rane on the road from Old da. Haddul to Tagrah, the former place being on the read from Artin to 1012 Kingain, and 2 miles R.E. of Rasance large village on the latter road. That,		75 32 20 7		250 251
Pátab h*	Dewle Fiate	This station was originally fixed by the secondary tri- angulation of the 1th gal soil Malwa Topographical formy, and is on the highest point of a group of hills lying a miles W. of Heltaklora stillers on the sight tank of the high rance, and if miles W.N.W. of the sillage of Palana Indeed Political Agency. The station counter of a fall-one of lowest hear densit by feet Ligh with a mark-stone in the centre. 1882-83.		75 35 17·65	1006	60, 61
Păthardi Hill Tree	, Alumatara	In the town of this name on the Chandni streams tiluks Phergacu, 1845,	19 10 17	75 13 7	•••	
Pimpri e		About 14 miles ft. by R. of the tillage of that name, 1 mile R. of Patharrel village, and 34 miles W.S.W. of the large village of Phalgaous taluba Nerdea. 1455		75 10 53 '01		#20 #21

Name of Station or Point District Description Latitude North North North State of Gession's Creewish Gession's Elegated to the Gession of Station of Station of Station of Gession's Elegated o		1 1 2		12.00	,		
Name of Station or Point District Description North Recent of Caronic Recent Point Pingrala Hill Pageda Pingrala Hill Pageda Pingrala h. pag. On the southern of the two small inclosed hills Iring nearly N. and S. and named after the village which lies at the western base of the northern hills about 2 mines N. vol. bholding Failury State on the light state on the l	•	.		Latitude	Longitude	Height of Station	
Pingraila Hill Pagoda Mandesur State Pingraila Mandesur State Pingraila Name	Name of Station or Point	District	Description	1.5	East of	· '	410. U
Pingrain Hill Pagoda Sate		1		1	Greenwich		
Commonstrate Comm	· · · · · · · · · · · · · · · · · · ·			 	1 : .	4	1
State State nearly N. and S. and named after the village which lies at the western base of the northern hill, about 2 ½ miles N.W. of Dhodhar Railway Station on the Belgutana Alaba San. We of Dhodhar Railway Station on the Belgutana Alaba San. We of Dhodhar Railway Station on the Belgutana Alaba San. We of Dhodhar Railway Station on the Belgutana Alaba San. We of Dhodhar Railway Station on the Belgutana Alaba San. We of Dhodhar Railway Station on the Belgutana Alaba San. We of Dhodhar Railway Station on the Belgutana Alaba San. We of Dhodhar Railway Station on the Belgutana San. We of Dhodhar Railway Station on the Railway Station of Policy San. San. San. San. San. San. San. San.	Dinanda IIII Danala			1 7 "	10. 1 1		
Bies at the western base of the northern hill, about 12 miles N. Vol Dudding Railynery Station on the Bicphythan Adalans Line : Western Malana Agency. 1848. Pipla Hill Tree Chitti Pimpalgaon	Pinalara h. naa.			23 47 10 4	75 0.48 7	L17331	61
Comp of trees on a hill, about 12 miles N.W. of the hillege occlled, a little to the E. of the road from gabad. 1945. Comp of trees on a hill, about 12 miles N.W. of the hillege occlled, a little to the E. of the road from gabad. 1945. Comp of trees on a hill, about 12 miles R.W. of Aurangabad. 1945. Comp of trees on a hill, about 12 miles R.W. of Aurangabad. 1945. Comp of trees on a hill, about 12 miles R.W. of Aurangabad. 1945. Comp of trees on a hill, about 12 miles R.W. of Aurangabad. 1945. Comp of trees on a hill, about 12 miles R.W. of Aurangabad. 1945. Comp of trees on a hill, about 12 miles R.W. of Aurangabad. 1946.	a nyma m pay		lies at the western base of the northern hill, about 21	1 7	T	11.7	2.6
Clamp of trees on a hill, about 1½ miles N.W. of the village so called, a little to the E. of the road from Aurangabad to Pátoda, and 10 miles S.E. of Aurangabad to Pátoda, and 10 miles S.E. of Aurangabad to Pátoda, and 10 miles S.E. of Aurangabad to Unrect, 1½ miles N.N.E. of Thouthis, and the same distance W. of Cundurádi village, 1846. Pokri Tower "About 2 miles S.S.W. of the village of the same name, about 1½ miles E. of Sirishian village on the road from Anabad the same of the same road, and 4 miles N. of Ambad, 1846. Pophla, XXVIII "Fide page 9—G 20 2 20 80 75 30 33 31 2518 1.3 Adail h.s. "On a temple on an isolated, conical hill, about 2 miles w. by S. of the village of that name, and 4 miles in the name direction of Kanad town, 1846. Rájur Hill Temple "Most chaborately carred stone building about 50 feet in height, having two fires of pillars above its base which is 13 feet high, standing about 50 feet in height, having two fires of pillars above its base which is 13 feet high, standing about 50 feet in height, having two fires of pillars above its base which is 13 feet high, standing about 50 feet in height, having two fires of pillars above its base which is 13 feet high, standing about 50 feet in height, having two fires of pillars above its base which is 13 feet high, standing about 50 feet in height, having two fires of pillars above its base which is 13 feet high, standing about 50 feet S.B. of the pillage of that name on the Pageodo feet from its centre and 12 feet from its centre and 12 feet from its S.W. certae. 1848. Rála Mandil Hill Peak Indere State of large hill, about 1½ miles E. of the Tudge of that name, the same of the Pageodo feet from its S.W. certae. 1848. Indere State of height page of Baltiegoura about a miles wood finds the large willage of Baltiegoura about a mile swood finds and the same of the page of the same		1		7 1 2 2 2			13 1
Territory Tillage so called, a little to the E, of the road from Aurangabad to Patoda, and 10 miles S.E. of Aurangabad. 1845. Tipla Hill Pagoda " About 2 miles S.S.W. of the village so called on the road to Unred, 14 miles N.N.E. of Thorthla, and the same distance W. of Qundarádi village. 1845. N. tower close to the village of the same name, about 12 miles E. of Sirádhūn village on the road from Ambad to Budnapur town, 3 miles S.S.E. of Karjii village on the same road, and 4 miles N. of Ambad. 1846. Pride pago 9—g 20 2 20 80 75 30 33 31 2818 1 3 Rail h.s. " On a temple on an isolated conical hill, about 2 miles in the same direction of Kanad town. 1846. Rail z. " Most claborately carred stone building about 80 feet in bickel, having two tiers of pillars above its base which principal station of the same name described on pago 9—g 20 3 42 4 75 53 34 9 9—g. 1841 1 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1.		1			
Territory Tillage so called, a little to the E, of the road from Arrangabad to Pstoda, and 10 miles S.E. of Aurangabad. 1845. Pipla Hill Pagoda " About 2 miles S.S.W. of the village so called on the road to Unred, 14 miles N.N.E. of Thouthla, and the same distance W. of Gundarddi village. 1845. N. tower close to the village of the same name, about 14 miles C. of Sizidhon village on the road from Arabad to Budnapur town, 3 miles S.S.E. of Karjii village on the same road, and 4 miles N. of Ambud. 1846. Pophla, XXVIII " Note page 9_G 10 2 2 20 80 75 30 33 31 2818 13 3	Pipalgaon Hill Tree	Nizam's	Clump of trees on a hill shout 14 miles N.W. of the	10 47 52	75 20 50	, ,	262
About 2 miles S.S.W. of the village as called on the road to Unred, 14 miles N.S.E. of Thorthia, and the same distance W. of Gundavádi village. 1845. N. tower close to the village of the same name, about 12 miles E. of Stráthán village on the road from Anihon to Distingue town, 3 miles S.E. of Stráthán village on the road from Anihon to Distingue town, 3 miles S.E. of Samply village on the road from Anihon to Distingue town, 3 miles S.E. of Samply village on the same road, and 4 miles N. of Anihod. 1846. Pophla, XXVIII , Fide page 9_g 20 2 20.80 75 30 33 31 2818 1.5. Rail h.s , On a temple on an isolated, conical hill, about 2 miles N. by S. of the village of that name, and 4 miles in the same direction of Kanad town. 1846. Fide page 9_g 20 3 43 04 75 53 34 58 2125 20 33 20 34 20 4 75 53 34 58 2125 20 33 20 34 20 4 75 53 34 58 2125 20 33 20 34 20 4 75 53 34 58 2125 20 33 20 34 20 4 75 53 34 58 2125 20 34 20 34 20 4 75 53 34 20 34 20 4 75 53 34 20 34 20 4 75 53 34 20 34 20 4 75 53 34 20 34 20 4 75 53 34 20 34 20 4 75 53 34 20 34 20 34 20 4 75 53 34 20 34 20 4 75 53 34 20 34 20 4 75 53 34 20 34 20 34 20 4 75 53 34 20 34 20 4 75 50 34 20 4	Chitti Pimpalgaon		village so called, a little to the E. of the road from		13-339	,,,,	263
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Rájur, XXIX , Worde pago 9—g 20 3.43 04 75 53 34 58 2125 20 3 Rájur Hill Temple , Most cluborately carred stone building about 50 feet in height, having two tiers of pillars above its base which is 13\(\frac{1}{2}\) feet high, standing about 70 feet S.E. of the principal station of the same name described on page 9—g. 1845. Rakshasbahan 8 , On a pagodá close W. of the village of that name on the right bank of the Godárari river and on the road from Gerrái town, and 4\(\frac{1}{4}\) miles N.N.W. of Dundri large village on the same rand. The station is marked on the Pagoda 40 feet from its centre and 12 feet from its S.W. corner. 1845. Rála Mandil Hill Peak Indore State Of a large hill, about 1\(\frac{1}{4}\) miles E. of, the village of that name, 6 miles S.S.E. of the Indore city, and 2\(\frac{1}{4}\) miles E. for the road from Indore to Khandwai Indore Political Agency. 1847. Ránigaon h.s Ahmednagar Towards the northern brow of a hill, about 1\(\frac{1}{4}\) miles E. by S. of the village of that name, the same distance N.N.W. of Golegaon, and 5 miles S.W. by S. of the large village of Bodilegaon about a nilus W. of the large village of Bodilegaon about a nilus W. of the large village of Bodilegaon about a nilus W. of the large village of Bodilegaon about a nilus W. of the large village of Bodilegaon about a nilus W. of the large village of Bodilegaon about a nilus W. of the large village of Bodilegaon about a nilus W. of the large village of Bodilegaon about a nilus W. of the large village of Bodilegaon about a nilus W. of the large village of Bodilegaon about a nilus W. of the large village of Bodilegaon about a nilus W. of the large village of Bodilegaon about a nilus W. of the large village of Bodilegaon about a nilus W. of the large village of Bodilegaon about a nilus W. of the large village of Bodilegaon about a nilus W. of the large village of Bodilegaon about a nilus W. of the large village of Bodilegaon about a nilus W. of the large village of Bodilegao	Rail s.	}	W. by S. of the village of that name, and 4 miles in			. ".	211
Rájur Hill Templo Most elaborately carred stone building about 50 feet in height, having two tiers of pillars above its base which is 13½ feet high, standing about 70 feet S.E. of the principal station of the same name described on page 9—a. 1845. Rakshasbúhan s On a pagoda close W. of the village of that name on the right bunk of the Godárari river and on the road from Gevrái town, and 4½ miles N.N.W. of Dundri large village on the same road. The station is marked on the Pagoda 40 feet from its centre and 12 feet from its S.W. corner. 1845. Rála Mandil Hill Peak Mondil H		1	The fame direction of Manage Count. 1040.			3	
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Most cluborately carred stone building about 50 feet in height, having two tiers of pillars above its base which is 13\frac{1}{2} feet high, standing about 70 feet S.E. of the principal station of the same name described on page 9—G. 1845. Rakshasbahan s Rakshasbawan Idga On a pagoda close W. of the village of that name on the right bank of the Godárari river and on the road from Gervii town, and 4\frac{1}{2} miles K.N.V. of Dundri large village on the same road. The station is marked on the Pagoda 40 feet from its centre and 12 feet from its S.W. corner. 1845. Raila Mandil Hill Peak Moondla H. Pt. Indore State Of a large hill, about 1\frac{1}{4} miles E. of, the village of that name, of miles S.E. of the Indore city, and 2\frac{1}{4} miles E. of the road from Indore to Khandwa: Indore Political Agency. 1847. Raingaon h.s Ahmednagar Towards the northern brow of a hill, about 1\frac{2}{3} miles E. br S. of the village of that name, the same distance N.N.W. of Golegaon, and 5 miles S.W. by S. of the large village of Bollegaon about a mile W. of the	tajur, AAIA	••• "	Tide page 9_G	20 3 43 04	75 53 34 58		38.
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			large village of Bodhegnon about a mile. W. of the	12.	1 12 2		1 3
road from Patoda to Paithan': talula Shevgaon. The station is denoted by a pillar of stone masonry, 4	* * * * * * * * * * * * * * * * * * * *		road from Patoda to Paithan: talula Shevgaon. The		ji : 1		11.1
feet in diameter, surrounded by a platform of loose			feet in diameter; surrounded by a platform of loose	3/1	` '	(1,1	
stones. 1845.			510Ed. 1940.				, "
			Lead to the same of the same of the				(
Rusulpur hs Nizam's On the table-land, about 4 a mile W. of the rillage so 19 58 8.03 75 17 14.74 2	Rasulpur hs		On the table-land, about 1 a mile W. of the rillage so	19 58 8 03	75 17 14 74	, i d	. 231
distance E. of Kaligaswari on the road from Auranga		Territory;	distance E. of Kahgaswari on the road from Auranga-			100	-232
bad to Ellora. 1845-46.			bad to Eliora. 1845-46.		· · · · · · · · · · · · · · · · · · ·		

Name of Station or Point		District	- Description	Latitudo North	Longitude East of Greenwich	Height of Station Height of Structure	1.0.0.
Raugaon Hill Pagoda	•••	Nizam's Territory	About a mile N.N.E. of the village so called, 5 miles S. by E. of Jálna town, 2 miles N.W. of Vádagaon on the read from Jálna to Gunsángvi, and the same distance S.W. of Earrádi on the high road from Jálna to Ranjani. 1845.	0 , " 19 46 29°6	0 1 " 75 57 ² 7 * 5	feet 	291 292
Reuti h.s Baroli H. Mut	***	Indore State	On a Buddhist temple situated on a hill, about 4 mile S.E. of the rillage of the same name, 6 miles E. by N. of the large village of Hated on the main read from Neemuch to Indore. The Holkar State Railway is 14 miles W. of the station: Indore Political Agency. 1847.	22 48 22 90	75 52 54 56	[2082]	100
Rohillagad Hill Peak	•••	Niram's Territory	About † a mile S. of the village so called on the road from Ambad to Yelthun, 2 miles N.W. of Kingson on the same road, and 41 miles S.E. of Yekthun. 1815.	19 41 49	75 42 24	***	282
Röza h.s	•••	n	On the S.W. corner of the Masjid on a hill, about \(\frac{1}{4}\) a mile N.W. of the town of that name, and 1\(\frac{1}{4}\) miles S.E. of Ellora on the road to Daulatabad. 1545-46.	20 040.30	75 13 29 35	 ,	233 231
Rui Pagoda	•••	n	Close to the village so called on the road from Dadagaen to Chincheli, about 31 miles from Bachagaen on the same read, and 2 miles N. by W. of Bauldi village. 1815.	19 29 40.6	75 53 46 5	***	305
Sámner h.s Somenair Sin.	•••	Khándesh	On the south-eastern point of a small group of hills, about a mile N.E. of the village of this name, the same distance S.S.I. of Pathri, and 45 miles in the same direction of Mhasávad Railway Etation of the G.I.P. Line: táluka Nasirabad. 1846.	20 48 38:31	75 30 56-25	[1012]	151
Sarola h.e	•••	Nizam's Territory	This was originally a station of the Hyderabad Topographical Survey, about 14 miles W.S.W. of Sarola village, 4 miles S. of Golagaon Buzurg on the road from Aurangabad to Ajanta, 6 miles S.S.W. of the latter, and 9 miles N.N.W. of Bhokardhan town. 1816.	2023 7.84	75 45 51 - 82	•••	198 199
Satára No. 1 h.s.	•••	"	This was originally a station of the Hyderabad Topo- praphical burrey, and is on the same table-land as the following station. 1845-46.	19 48 38 73	75 20 51 • 94	•••	261
Satárs No. 2 h.s.	•••	"	On the N.W. brow of the plateau, about 2 miles S.S.W. of Satéra town, and 1 mile E. by N. of Nalchelmwari village on the road from Aurangabad to Paithan. 1815.	1949 5'11	75 20 39°80	***	265
Sátmáln, XXVII	•••	n	Fide page 9.—g,	20 20 13.97	75 949*65	3003 5°0	35,36
Sátpuda Hill Peak Aimbraicun	•••	Khándesli	A prominent point of the Sátpuda range, about 5 miles E. of the ruins of Gauligad: táluka Sárda. 1816-47.	21 19 5	75 40 34	[3523]	145 146

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station Height of I Structure	No. of Triangle
Savangi h.s Masasa h. sin.	Khándesh	Close to the village of that name, about 2 miles N. of the road from Pachora to Shendurni, 7½ miles E. by N. of the former, and the same distance W.S.W. of Lohara town: taluka Pachora. 1846.	20 42 31 51	75 32 51 38	feet	180 181
Sawargaon Pagoda Sowlisar	Nizam's Territory	Close S. of the village so called, about 1 of a mile E. of Saulesvar village on the right bank of the Godávari river, and 3 miles N.N.E. of Dundri village on the road from Gevrái town. 1845.	19 21 15 1	75 44 36 0	•	811 (3)
Semlia s	Dhất State	On a strip of waste-land, about 1½ miles S. of the village of that name, 2½ miles N.W. by N. of Kanwan town, 3½ miles E.N.E. of Kod, and ½ a mile W. of the high road from Rutlan to Indore: Bheel Agency. The station consists of a platform of earth enclosing a circular, perforated pillar of masonry, 2½ feet in diameter and 5 feet in height, with an aperture on the S. side giving access to the mark-stone at the ground lovel. 1882-83.		75 16 48 15	1774 5	93
Sovátta Tower Treo Sewta burj	Nizam's Territory	Close to the village of that name over-looking the left bank of the Goddwari river, about 2 of a mile E. by N. of Deolána village, 3\frac{1}{2} miles S.E. by E. of Káregaon, and 2\frac{1}{2} miles N.E. by E. of Dhaigaon Principal Station. 1845.	1932 8	75 17 6		326
Shorapur Hill Pagoda Shorapur h. pag.		About 2 miles 8. of the village so called, the same distance N. by W. of Kalapuri, and 1 mile E. of Jom village on the road from Manur town. 1845.	19 4 177	75 35 40.8		311
Shorgarh s.	Dhár State	On a high swell of ground near the western edge of an extensive plateau, about 1½ miles N.W. of the large village of that name, 3½ miles S.W. by W. of Kod town, and the same distance W.N.W. of Bidwal town: Bheel Agency. The station is denoted by a mark stone embedded flush with the ground, having four other stones around it with marks thereon; the intersection of lines joining them coincides with the station mark. 1882-83.	,	75 10 47 69	1826	97
Shernapur h.s Ohambartaikri s.	Nizam's Territory	On a hill masjid about a mile S. of the village of that name on the read from Aurangabad to Baizapur, 6 miles W. of Aurangabad, and 1 mile E. of Karadi village. 1845.	19 53 6 20	75 16 30 07		267 269
Shirga Tower Seoga s. burj		S. of the village of that name, about 2 miles S.E. of Piperi village on the road from Jálna to Ambad, and 24 miles E.N.E. of Lalvádi village. 1845.	19 40 48 8	75 52 38.4		296
Sillöd s. Sheloor	n'	About 200 yards S. of a Bar tree, 14 miles E.N.E. of place so called on the road from Aurangabad to Ajanta, and 74 miles W.N.W. of the town of Bhokardhan. 1846.	20 18 49 82	75 43 31 00		202 203
Sindkhed h.e Generi pk.		On a hill peak about 14 miles N.W. of the villace so called, 31 miles S. of Gaundgaon, and 6 miles S.W. of the town of Gerrai. 1845.	19 13 14 93	75 42 42 95		3 08

Name of Station or	Point	District	Description	Latitudo North	Longitude East of Greenwich	Height of Station Height of Structure	Triangle
Sindphal Hill Pagoda	•	Nizam's Territory	About 2 miles E. of the large village of that name, and 10 miles W.S.W. of Undangson. 1846.	0 1 " 20 25 12·1	0 / " 75 33 24 8	fcet 	201
Singárchori, XV	•••	Mänpur State	Fide page 6-6	}	75 42 55 62	1.8 5801.10	19
Sirádhön Tower		Nizam's Territory	S. of the village so called on the road from Ambad to Roshangaon, about 4 miles N.N.W. of the former, and 2 miles N. by W. of Maldi village at the junction of the roads from Yekthun and Roshangaon to Ambad. 1845.	19 40 20'2	75 47 25 5	***	200 300
Siraegaon Tower		Ahmednagar	Close E. of the village of that name, about 3 miles W. of Khamgaon, 11 miles E. by N. of Ghiregaon, 31 miles N.1: by N. of Gevrai, and 31 miles N. by W. of Pipri Saháli: táluka Nevása. 1815.]	75 9 15 6	•••	321
Sirjapur Peak Bottaik pt.	***	Nizam's Territory	About 11 miles W. by N. of the village so called, 2 miles S.E. of Kolevádi village, and 6 miles W. by S. of Kanad town, 1816.		75 5 43	•••	
Sireála, XXVI	•••	,,	777de pago 8 <u> </u>	20 29 56.24	75 33 36 25	2790 0.8	33
Sitamau, I	•••	Sitamau State	Vide page 4	24 2 6.65	75 22 24 33	15.4	2,3
Sítamsu Hill Tree		tt	On a small hill about a mile S.W. of the town of Sitaman, I of a mile N. of the Laddnía lake, and I mile N. of Dámátheri villago closo W. of the above lake: Western Malwa Agency. 1817-49.		75 23 0	•••	52
Sitamau Palaco	<i></i>	n	In the southern quarter of the town, and on the read to the Ladunia lake: Western Malwa Agency. 1817-19.	24 048	75 23 45		
Somtána Hill Dípmal	***	Nizam's Territory	About a mile S.S.W. of the village so called, 51 miles N.N.W. of Badnapur on the high read to Aurangabad, and 2 miles W.N.W. of Nikalak on the read from Badnapur to Kandari Bururg. 1815.	• [75 44 2.5	•••	255
Somtána s	,	Ahmednagar	On a pagodá about 3 miles W.S.W. of the village of that name on the read from Mánúr to Shevgaon, 4 miles B. by E. of Varúr, and the same distance S.E. by E. of the large village of Amrapur on the high road from Ahmednagar to Shevgaon: táluka Shevgaon. 1845.		75 16 24 . 54	***	332
Songarh Peak '		Dhar State	The highest point of a conical hill at the W. end of the plateau on which is situated the old fortified town of Mandogarh. The read down the ghat to Amlikondal passes 4 of a mile S.E. of the point: Bleed Agency 1817.		75 24 55	[2304]	126 127

^{*} To mark-stone in upper surface of circular pillar.

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Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station Height of Structure	
Songir h.s Songeer stn.	Khándesh	On a detached hill immediately S. of the town of this name on the high road from Bombay to Agra: taluka Dhulia. 1846.	21 4 32*54	74 49 30 53	feet ; [1009]	168
Talvåda Hill Pagoda Tharwar H. Pag.	Nizam's Territory	On an isolated, conspicuous hill, about a mile S.W. of the large village so called, 14 miles N. of Rokada vil- lage, and 74 miles N.E. of the town of Gerrái. 1845.		75 53 35 2		307
Tandoli h.s	Ahmednagar	On a hill, about 14 miles E. of the village so called, 24 miles N. of Kanosi, and 44 miles E. by N. of the large village of Koradgaon on the left bank of the Nani stream: táluka Shorgaon. The station is denoted by a mark-stone surrounded by a platform. 1845.		75 24 `0:34`	[2143]	818 819
Tarauli h.s	Jhallawar State	This station was originally fixed by the secondary triangulation of the Bhopal and Malwa Topographical Survey, and is on one of a group of flat-topped hills lying midway between the Káli Sindh and the Sipra rivers, about 14 miles W. by N. of the village of Tarauli, and 14 miles W. by E. of Kitia village on the cart road from Sitamau to Mehidpur: Harowtee Agency. The station was found to consist of a very solid stone platform, 34 feet high and 13 feet in diameter, with a mark-stone in its centre: three other stones were embedded around the mark-stone for the theodolite stand to rest on. 1882-63.		75 37 37 48	1546	57,55
Tarkha h.s	Nizam's Territory	At the northern extremity of the flat portion of a high flat-topped hill, about 1½ miles N.N.E. of Mahinda village from which there is a good road to the 'station, 2 miles S.E. by E. of Mohori, and 5 miles S.S.E. of Fáthardi town. The station is denoted by a circle and dot engraved on the rock in sitä. 1883-84.	19 619 93	75 15 28 18	2516	350 351
Tarla h.s Kutban Stn.	Dhár State	On an isolated, conical hill, about 11 miles E.S.E. of the village so called on the high road from Dhar to	22 34 31 1	75 17 55 2	[2022]	
Tasdin Hill Templo No. 1	Holkar's Territory	Amjhem, and 2; miles S.W. by W. of the town of Dhar: Bheel Agency, 1847. Large temple on a very high flat-topped hill so called in the Satpuda hills. The road from Chopa to Dhuikot passes 1 mile E. of the hill: pargana Silu. 1847.	21 31 18 0	75 25 59°5	[3390]	141 142
Taedin Hill Temple No. 2	, ,	Small temple about 70 feet S.W. by S. of the preceding temple. 1847.	21 31 17.4	75 25 59 2	•••	148 144
Thikri, XVII	Dhår State	Fide page 7—g. Note.—When visited by the Levelling Party in 1893-84, the station was found in good order.	22 1 2 77	75 27 17 16	854*65	. 23
Thikri Hill Pagoda	n	A temple on a small isolated hill, about 4 mile N. of the Bombay-Agra road, 4 a mile N. W. by N. of the village of Thikri, 2 miles S.E. of Gordhanpur village, and 2 miles N.E. of Sinkil Chaukion the high road: Bheel	22 415.3	75 26 14 3	[708]	

^{*} To top of rectangular protecting pillar 3.5 feet high, built over circular pillar.

Name of Station	n or Point	. District	Description .	Latitude North	Longitudo East of Greenwich	Height of Station Height of Structure	2.0.01
Titteroni h.s. Tittarıcani etn.	***	Nizam's Territory	On a hill, about 1½ miles N.E. of the village so called, 1½ miles S. of Tarradgaon, and 4 miles E.N.E. of Mathpuri village on the road from Ambah to Borgaon. 1815.	0 1 11 19 11 16 .	9 1 II 75 34 22	feet 	•••
Toka h.s.	•••	Alımedınıgar	On a hill pageda in ruins overlooking the right bank of the Goddvari river, about 4 of a mile E. of the read to Aurangabad, and 1 mile in the same direction of Toka village at the confluence of the Fravara and the Goddvari: taluka Nevasa. 1845.	19 37 20.82	75 418.65	•••	266
Tulvádi h.s. <i>Karjai Stn</i> .		Khándesh	On a hill, about 2½ miles S. by W. of the village of that name, and 4½ miles N.N.E. of Chálisgaon. 1846.	20 30 12	75 5 8	•••	•••
Undangaon h.s.	***	Nizam's Territory	On the highest point of a hill, about 2 miles W.S.W. of the large village so called, and 8 miles S. of Baitalvádi town. 1846.	20 27 2.05	75 41 27 48		192
Undangaon Hill Tr	reo	; **	About 120 yards W.N.W. of the preceding station. 1846.	20 27 3	75 41 24	•••	205 206
Unel Hill Tree	•••	Gwalior State	On a small isolated hill, about 1 mile 8, of the town of Uncl (Unhal), close E. of the cart road from thence to Garla, and \(\frac{1}{4}\) a mile N. by W. of the small village of Lagulia. 1848.	23 19 19	75 35 49	•••	•••
Upli Pagoda		Nizam's Territory	Near the village of that name on the bank of the Ajna, a tributary of the Purna river, and about 7½ miles N.W. of Chinishaida village on the road from Aurangabad to Ajanta. 1846.	20 19 23 ° 5	75 33 37 8	•••	209
Vádagaon Hill Pag Poonegaon H. Pa		13	Near the village so called on the road from Jálna to Gunsángri, and about 2 miles S.W. of Hargaon on the high road from Jálna to Raujani, 1845.	19 45 36 .6	75 58 28 0	•••	293 291
Vaduli House Wadola house	•••	Ahmednagar	In the village of that name close S. of the high read from Ahmednagar to Shevgaon, and about 3 miles W.S.W. of the latter: táluka Shevgaon. 1845.	19 20 31	75 13 37	•••	
Vaigaon Hill Tree Nandra H. Tree	•••	Nizam's Territory	On the table-land S.E. of the village of that name, about 2 miles N.E. of Donváda village, and 8 miles N.W. of Ladsángvi on the high road from Aurangabad to Akola. 1845-46.	20 126	75 33 7		•••
Valvádi, XXIII	•••	Kliándesli	Fide pago 8.—a	20 44 27 73	75 13 34*30	1127·57 2·0	30
Varad h.ė. Warad	•••	Nizam's Territory	On a peaked hill of the Ajanta range of ghats, about 13 miles N.W. of village so called, 1 mile W. by N. of Sutundeh, and 132 miles S. by W. of Pachora town. 1816.	20 29 5 14	75 23 15 66	•••	194
Varjári Hill Wurjarri pt.		Kliándesh	About 2 of a mile W. of the village so called, a mile D.N.D. of Nimjari, and 53 miles N.N.E. of Shirpur town which is 13 miles off the high road from Bombay to Agras taluka Shirpur. 1817.	21 25 43	74 56 51	[1151]	189

^{*} To top of rectangular protecting pillar 2.8 feet high, built over circular pillar.

	·	<u> </u>				3.5
Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station Structure	in the second
Varod h.s Warow Stn.	Khándesh	On a small hill near the site of the village of that name, and about 44 miles N.W. by W. of the town of Bhadgaon: 1846.	20 43 0:29	75 15 50-81		176
Varundi h.s Warandi pk. s.	Nizam's Territory	On a hill about a mile N.E. of the village of that name, 14 miles S. by E. of Gadadon village on the road from Pipri to Ehir Kingaon, and the same distance N.W. of Kasaner on the road from Bhir Kingaon. 1845.	()	75 28 26 34		274
Vási Hill Penk Wassai		Close E.S.E. of the village of that name, about 3 miles N.N.E. of the large village of Undangaon, 5 miles W.S.W. of Ajanta town, and the same distance S.E. by S. of Baitalvadi. 1845-46.		75 43 38		193
Vatli h.s Dowla Hanmant Stn.	Amjhora Stato	On a high hill of that name on the edge of the Vindhya range, about \(\frac{1}{2}\) a mile S. of Dhamakheri village, and 1\(\frac{1}{2}\) miles N.W. of Sironj village: Bheel Agency. 1847.	1	75 4 9 17	[1800]	119 120
Wadona Paak Warud pt-	Nizam's Territory	About a mile W. of the village so called close E. of the road from Temborni to Deulgnon Raja, 4 miles N.W. of the latter, and 6 miles S. by E. of the former, 1845.		76 246		217
Walauj Pagoda Naigaon Pag.	,,,	Close to the rillage of that name on the right bank of the Dudhna river and on the read from Aurungabad to Ahmednagar, and about 10 miles S.W. of the former. 1845.		75 16 4:0		273
Waragaon Hill Tomb	33 T	White temb on a hill E, of the village of that name, and about 3 miles W. by S. of Pulmari town on the road from Aurangabad to Ajanta. 1846.	20: 4 39 2	75 24 39 9		223
Yeklorwar Hill Dipmal <i>Yeklara dip</i> .	,	About a mile N.E. of the village of that name, 31 miles S. by E. of Karmaud village on the high read from Aurangabad to Jahn, and 2 miles N.W. of Karvel village on the read from Hadgaon Buzurg to Badnapur, 1845.		75 36 1 6		261
Yelli Hill Tree Pimpalgaon Tree	Ahmednagar			75 22 41		
Yerul, XXX	Nizam's Territory	Fide page 9—g.	19 58 37 15	75:11 34:13	2959	40
Yerul Hill Tree	,	Conspicuous Bar tree 140 yards E. of the preceding station of the same name. 1845.	19 58 36	75 11 39		235

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